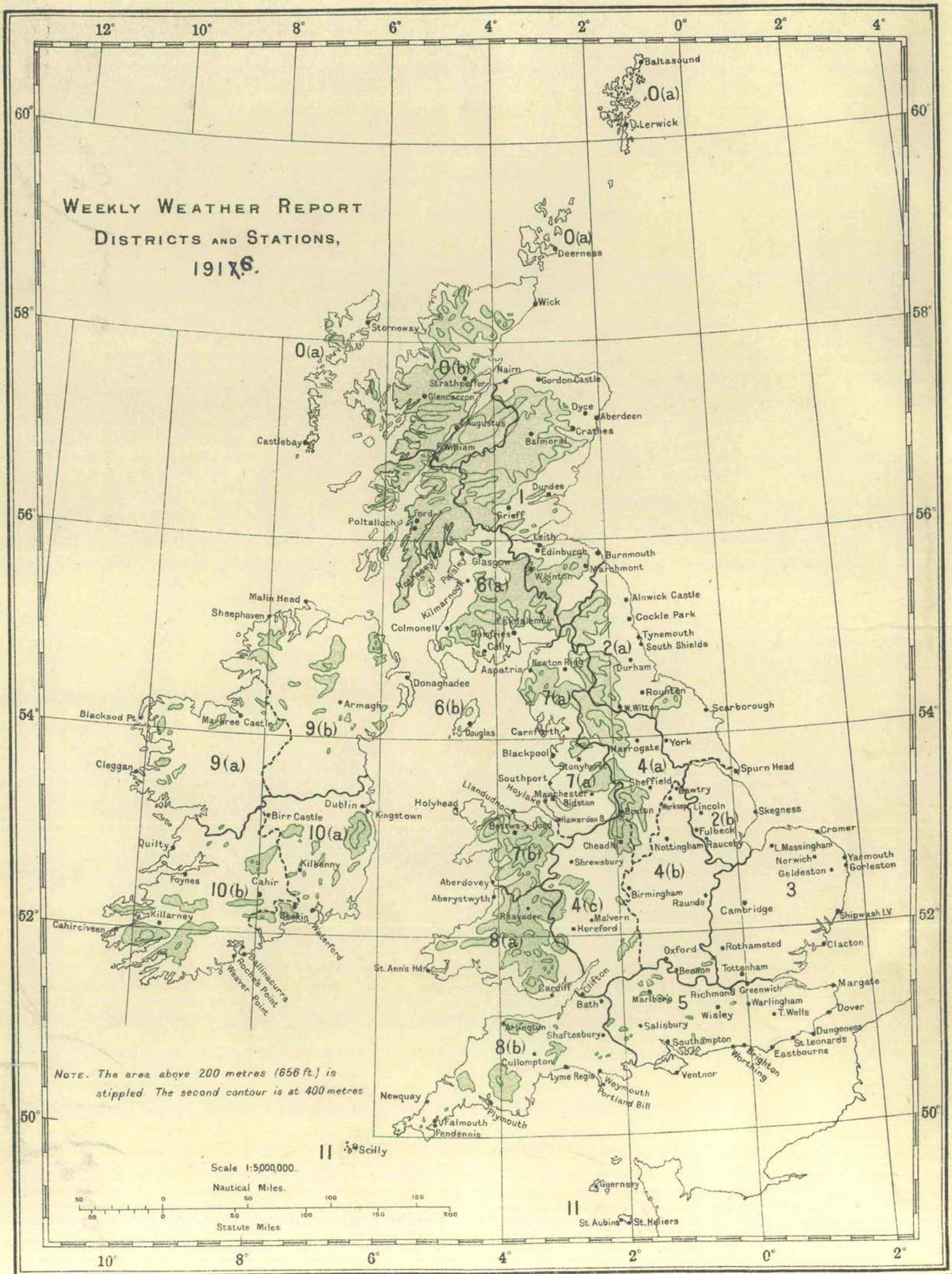
W-1916



Ps 3054. 153. B.G.P. 441. 450. 7/17.

Wyman & Sons Ltd Litho. M.O. Press, London S.W.7.

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M.O. 227a. (1.)

METEOROLOGICAL OFFICE.

BRITISH METEOROLOGICAL AND MAGNETIC YEAR BOOK, 1916.

PART I.

THE

WEEKLY WEATHER REPORT

(VOL. XXXIII.—NEW SERIES).

SECTION 1.—Particulars of Temperature, Rainfall and Bright Sunshine for each week, with quarterly and annual summaries, and an annual table of weekly and progressive values.

Published by the Authority of the Meteorological Committee.

LONDON:
PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE.

To be purchased through any Bookseller or directly from
H.M. STATIONERY OFFICE at the following addresses:
IMPERIAL HOUSE, KINGSWAY, LONDON, W.C.**2**, and 28, ABINGDON STREET, LONDON, S.W.**1**;
37, PETER STREET, MANCHESTER; 1, ST. ANDREW'S CRESCENT, CARDIFF;
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or from the Agencies in the British Colonies and Dependencies,
the United States of America and other Foreign Countries of
T. FISHER UNWIN, LTD., LONDON, W.C.

1917.

Subscription price, post free, including the Monthly Weather Report, Thirty Shillings.

BRITISH METEOROLOGICAL AND MAGNETIC YEAR BOOK, 1916, PARTS I. & II.

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PREFACE.

For the convenience of libraries and others the various serial statistical publications of the Meteorological Office have been grouped since 1911 under the general title British Meteorological and Magnetic Year-book. The Year-book is in four parts :—

Part I.—The Weekly Weather Report. Issued weekly on Friday. Price 6*d*. Appendix I issued quarterly, Appendix II, annually.

Part II.—The Monthly Weather Report. Issued monthly on the 27th of each month, with a summary issued annually. Price 6*d*. each issue.

Part III.—Section I. Daily readings at stations of the First and Second Orders. Issued in monthly parts within about five weeks of the close of each month. Price 6*d*. each part. Annual Volume, 5*s*.

Section 2. The Geophysical Journal of the Observatories of the Meteorological Office. Issued in Monthly Parts. Price 1*s*. each part. Annual Volume, 10*s*.

Part IV.—Hourly Values from Autographic Records. Published at the end of each year. Price, 5*s*.

THE WEEKLY WEATHER REPORT.

The Weekly Weather Report consists of two sections. Section I. contains mean values of temperature, rainfall and sunshine for districts and for stations in the British Isles, and summaries of the autographic records of wind. Section II. consists of daily weather charts of the North Atlantic and surrounding continents.

Section I. of the Weekly Weather Report for 1916 was issued in the same form as in the preceding year but with the substitution of a table of wind components for the table of sea-temperatures which was omitted on account of the difficulty found in obtaining information punctually under existing conditions. The publication of Section II has been suspended.

The arrangement of Section I is explaned in the Guide to the Tables of the Weekly Weather Report.

STATIONS AND DISTRICTS.

The stations used in the preparation of the Report and the districts into which the British Isles are divided for meteorological purposes are shown in the Frontispiece Map. Particulars of their altitudes, etc., will be found in the Introduction to the Monthly Weather Report or in Circular 001 J.

The stations used for the preparation of District Values of Temperature, Sunshine and Rainfall are printed in roman type in the reports, other stations being shown in italics.

Observations at Llangammarch Wells ceased in July, 1916, and for the remainder of the year the District Values for District 8 were calculated from the data for nine stations. For 1917 Rhayader takes the place of Llangammarch Wells. There were interruptions in the observations at Poltalloch and Strathpeffer. It may be noted here that the boundary of Districts 4 and 8 has now been readjusted to agree with the county boundary between Gloucester and Somerset so that for 1917 Clifton is in District 4 and Bath in District 8. The effect of the change on the District Values will be very slight.

APPENDICES.

Appendix I. shows for each quarter and for the whole year (1) the number of rain-days, (2) the total rainfall and its percentage of the normal, (3) the mean temperature and its difference from the normal and (4) the duration of bright sunshine and its percentage of the normal.

In addition to the normals for the 35 years 1881–1915 figures are given for the years *1911 to 1916, and for each of the six lustra in the period 1881–1915. The corresponding data for the individual years 1878–1910 are given in the Appendix for 1910 so that this Appendix presents in a convenient form the character of the seasons throughout the period of 38 years.

Appendix II. contains a résumé of the District Values for the weeks of the year. It is prepared with a view to discussion of the influence of weather on crops or on the public health.

HISTORY OF THE WEEKLY WEATHER REPORT.

The first number of the Weekly Weather Report was that for the first week of February, 1878. There were four pages royal 8vo.

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* For the first two quarters values for the individual years 1911 to 1915 were omitted.

(11447—19.) Wt. 79a—736. 450. 6/17. D & S. G. 17/ 40.

The presentation of a summary of the weather in the various districts into which the British Isles are divided for meteorological purposes was regarded from the first as the prime object of the report. The District-Values were derived from readings at 45 stations. In the absence of sufficient information District-Values were not prepared for the North of Scotland (now called District 0), but the readings from the four stations were printed with those from Scilly and Jersey in a separate table.

The elements tabulated for the several stations were highest and lowest temperatures, average temperature for the week, and its difference from the mean or, or as it would now be called, the normal ; the number of days with rain, and the total fall for the week with the difference from the mean. For Districts the seven means of these quantities were shown,

The report contained remarks on the general character of the week and space was provided for maps, two for each day, one for pressure and wind, the other for temperature and weather, accompanied by short accounts of the weather over Western Europe. The first number in which the maps actually appeared was that for the week ending July 8th, 1878.

In April, 1880, the duration of Bright Sunshine as measured by the Campbell-Stokes' Sunshine-Recorder was introduced, the averages for the week of the daily maxim and minima of temperature were shown and the number of stations was increased to 62.

In 1884 the page was enlarged to his present size. At the same time special rules for determining the mean temperature of the week from observations of the maximum and minimum temperatures each day were adopted and the computation of "accumulated temperatures" was begun. These changes were discussed in memoranda prepared by General Strachey for the Quarterly Weather Report, 1878, Appendix II. The methods, which have not been changed since 1884, are explained in the Guide to the Tables of the Weekly Weather Report. A third map showing the distribution of pressure and wind each day at 6 p.m. was introduced at the same time. With this new series the inclusion of Scotland North and the Channel Islands in the list of districts begins.

In 1889 the area covered by the maps was increased and the report was enlarged to six pages.

A further step designed to make the report more generally useful was made at the beginning of 1906. The figures for the previous 25 years were analysed and the frequencies of departures from the normal of various magnitudes determined. Precise meanings based on the frequency table were given to the words "unusual" and "deficient" applied to warmth, "heavy" and "light" used for rainfall, and "abundant" and "scanty" for sunshine.

The boundaries of the Meteorological Districts were drawn originally without regard to counties. In 1906 the districts were modified, the most noteworthy change being the restriction to Scotland and the Isle of Man of District 6 which had formerly included part of Cumberland.

Additional values of Bright Sunshine at other than District Value stations had been given in a separate table from 1891 ; in 1906 such extra stations were brought into the principal table but shown in brackets. At the same time a table of temperature on the grass and in the ground was introduced. In 1912 the grass and ground temperatures were brought into the principal table. A summary of anemometric results has been published since 1914. In 1916 a table of wind-components replaced the summary of sea temperatures which had appeared since 1907 and which was discontinued owing to the interruption of the punctual communications of observations by the war.

Observations of the upper air were included in the reports for the years 1906–1910 ; they are now published in the Geophysical Journal.

Since 1912 the maps, which now cover almost the whole of the Northern Hemisphere, have been issued in a form convenient for binding separately (vide W.W.R. Section 2, 1913, Preface). The publication of the map section has been interrupted by the war.

Further information concerning the history of the Weekly Weather Report is given in the Annual Report of the Meteorological Committee, 1912–13.

Reference may be made to two papers in which the data of the Weekly Weather Report form the basis of discussion :

W. N. Shaw :—Seasons in the British Isles, Journal of the Royal Statistical Society, 1905 ;

R. H. Hooker :—Correlation of the Weather and Crops. Journal of the Royal Statistical Society, 1907.

Meteorological Office,
London, S.W. 7.
1st June, 1917.

NAPIER SHAW,
Director.

Printed under the authority of His Majesty's Stationery Office
By DARLING AND SON, LIMITED, BACON STREET, E.2.

424/73

METEOROLOGICAL OFFICE.

WEEKLY WEATHER REPORT, 1916.

GUIDE TO THE TABLES CONTAINED IN THE WEEKLY ISSUES.

I.—Explanation of the Tables on the First Page of each Weekly Issue.

Wind Components.

This table gives the frequency of occurrence during the week and mean value for the week of the components of wind as recorded at Deerness (Scotland, N.), Great Yarmouth (England, E.), Holyhead (North Wales), Scilly (England, S.W.) and Valencia (Ireland, S.W.).

The anemographs are of the Robinson cup pattern. The records obtained are tabulated hourly, and the values of the wind components are worked out daily for the four hours centering at 3h., 9h., 15h. and 21h. The results for the 28 hours thus selected to represent the week are then examined and the number of times on which components from any cardinal direction occurs, divided by four to reduce the total to 7, and rounded off to the nearest whole number, is the frequency of that direction as printed in the column headed "Frequency." The frequency numbers may therefore be taken to represent the number of days in the week on which the particular wind component prevailed. The frequency of calm is obtained similarly. Direction is not tabulated when wind-velocity is less than 1·5 metres per second.

The values of mean wind velocity are the sums of the several components at the hours mentioned, divided by the number of them.

Warmth, Rainfall and Sunshine.

(The Classification is based upon the Values for each District published in Table V. of each Weekly Issue.)

Warmth.—The week's warmth is called **unusual** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very unusual** if it is likely to occur, for that week, only once in twelve years; similarly it is called **deficient** if it is so much below the average for the time of the year that it is only likely to occur, for that week, once in three years, and **very deficient** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called **moderate.**

Rainfall.—The week's rainfall is called **heavy** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very heavy** if it is likely to occur, for that week, only once in twelve years; similarly it is called **light** if it is so much below the average for the time of year that it is only likely to occur, for that week, once in three years, and **very light** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called **moderate.** When the week has been without rain, the word **nought** is inserted in the column for the district.

Sunshine.—The week's sunshine is called **abundant** if it is so much above the average for the time of year that, in the long run, it is likely to occur, for that week, only once in three years, and it is marked **very abundant** if it is likely to occur, for that week, only once in twelve years; similarly it is called **scanty** if it is so much below the average for the time of year that it is likely to occur, for that week, only once in three years, and **very scanty** if it is likely to occur, for that week, only once in twelve years. Otherwise it is called **moderate.** When the week has been without sunshine the word **nought** is inserted in the column for the district.

The classification may be put briefly in tabular form as below, and a similar table applies to Rainfall and Sunshine also. For the latter elements a week for which the value is **nought** counts as a **very light** or **very scanty** week.

Classification for Warmth.

Number of weeks on the Average in 12 years.					
Very Unusual.	Unusual.	Moderate.	Deficient.	Very Deficient.	Total.
1	3	4	3	1	12

The averages referred to above are the smoothed averages of the weekly values published in the Weekly Weather Report for the 25 years 1881–1905. An account of the method of determining the limits of the various classes is given in the introduction to a Report on the Seasons of the British Isles now in preparation.

(7700r—19.) Wt. 79—418. 1500. 3/16. D & S. G. 17/ 40.

In the Summaries for the current season the first figures (**large thick type**) in each column denote the number of weeks of **unusual** warmth, **heavy** rainfall and **abundant** sunshine in each district. The second figures (**small thick type**) denote the number of **moderate** weeks. The third figures (ordinary type) denote the number of weeks of **deficient** warmth, **light** rainfall, **scanty** sunshine. **Very unusual** weeks are included with **unusual weeks** in this table, and so for the other extreme characters.

II.—Notes on the Statistical Tables of the Report.

TEMPERATURE.—(*a*) **Of the Air.**—The temperature of the air is obtained from self-registering maximum and minimum thermometers placed in a louvred screen, standing on four legs, at a height of about 4 feet above the ground.

The thermometers are read and set at the hour of morning observation (7 a.m. or 9 a.m.) at stations marked *a*, and at the hour of evening observation (generally 9 p.m.) at the stations marked *p*. At the former the maximum temperature is entered to the day preceding that on which it is read, and at the latter to the day of reading. The minimum temperature is entered in all cases to the day of reading.

The mean temperature published in this Report differs from half the sum of the means of the daily maxima and minima by an amount proportional for each month to the difference between these two means. If X and N are the means of the daily maxima and minima, the amounts to be added or subtracted from half (X + N) to get the mean temperature are shown in the following table :—

Month.	Jan. and Dec.	Feb. and Nov.	Mar. and Oct.	Apr. and Sept.	May and Aug.	June and July.
Amount	Add $\frac{1}{50}$ (X—N)	Nil	Subtract $\frac{3}{200}$ (X—N)	Subtract $\frac{6}{250}$ (X—N)	Subtract $\frac{3}{100}$ (X—N)	Subtract $\frac{7}{200}$ (X—N)
Simple Approximate Value.			$\frac{1}{70}$ (X—N)	$\frac{1}{40}$ (X—N)	$\frac{1}{30}$ (X—N)	$\frac{1}{30}$ (X—N)

(*b*) **On the Grass.**—The temperature on the grass is obtained from a minimum thermometer whose stem is protected by an outer glass tube. The thermometer is placed so that it is just level with the top of short grass, *i.e.*, about 2 inches above the ground. A night is reckoned as a night of ground frost if this thermometer falls to 30°·4 F. or below.

(*c*) **In the Ground.**—The temperature of the ground is obtained from thermometers whose bulbs are embedded in a non-conducting material (usually paraffin wax) contained in a glass tube about 1 inch in diameter. The whole thermometer is placed in an iron tube closed at the bottom and covered at the top by a metal lid which prevents the entrance of water into the tube. The readings usually refer to the epoch 9 a.m. Separate iron tubes are used for the 1 foot and 4 feet thermometers.

(*d*) **Of the Sea.**—The temperature of the sea-water is taken from a place where the water is not less than 6 feet deep at low tide and refers to water at least 1 foot below the surface.

RAINFALL.—The rainfall refers to the period of 24 hours beginning at the hour of morning observation, *i.e.*, the measurement made in the morning is entered to the preceding day. The gauges are of 8 inch or 5 inch diameter and the rims are 1 foot above the ground, except at Kew and Falmouth, where the records are taken from the Beckley Autographic Gauges which have a collecting area of 100 square inches and stand with their rims approximately 2 feet above the ground.

A rain-day is a day on which ·01 inch or 0·2 mm. of rainfall is recorded during the period of 24 hours referred to above. As it is the practice to count measurements which lie intermediately between two exact numbers as belonging to the higher number if they lie nearer to it (or half-way between the two) and as belonging to the lower number if they lie nearer to *it*, the exact limits of the amount of rain which determines a rain-day are ·005 inch or ·15 mm. respectively. Days on which precipitation is deposited in the form of dew or hoarfrost are not counted as rain-days in this Report, but they are counted as days of precipitation in the Monthly Weather Report.

SUNSHINE.—The records are obtained from recorders in which the sun's rays are concentrated upon a blue card of definite composition and colour by means of a lens of definite size and refractive index. The specification is given in the Observers' Handbook, M.O. 191. The trace during intermittent sunshine is extended by charring of the card beyond the true limits at which the sun emerges and is obscured, and an allowance, resting on long practice, is made for this extension. The allowance is less than that which would reduce the record of intermittent burns of short duration in very bright sunshine sufficiently to give the actual time during which the sun was unobscured. The values are, therefore, on the average slightly in excess of the actual duration of sunshine of intensity sufficient to scorch the card.

WIND (Table IV.).—All the records are obtained from instruments of the Dines Pressure Tube type except where otherwise stated. The trace is made by recording the rise and fall of a float which is lifted partly by the pressure of the wind on an open horizontal tube of 28 mm. diameter facing the wind, and partly by the suction of the wind passing 4 rows of holes in a vertical tube of 44 mm. diameter. The trace has the appearance of a ragged ribbon of varying width and the mean velocity for an hour is obtained by taking a line running along the middle of the ribbon and estimating its mean height above the base line for the period from 30 minutes before to 30 minutes after an exact hour of Greenwich Mean Time.

A wind is taken to be of gale force if the mean velocity for an hour centering at an exact hour of G.M.T. estimated in the manner explained above, reaches or exceeds 17·2 m/s (metres per second) : N.B.—A velocity of 17·2 m/s may be reached or exceeded for a brief time or in gusts during winds which are *not* of gale force.

Winds for which this mean velocity is 10·8 m/s or more but less than 17·2 m/s are counted as High Winds. Winds for which this mean velocity is 5·5 m/s or more, but less than 10·8 m/s are counted as moderate or fresh winds. Winds for which this mean velocity is 1·6 m/s or more, but less than 5·5 m/s, are counted as light winds. Winds for which this mean velocity is below 1·6 m/s are counted as calms or light airs.

The gusts are obtained by taking the highest excursion on the ribbon. The velocity is expressed in metres per second ; the direction according to the points of the compass, referred to true, that is Geographical as distinguished from Magnetic, North. The direction of the mean velocity is estimated from the direction record in a manner similar to that used for the estimation of mean velocity. The direction of a gust is taken as nearly as possible for the instant at which the gust occurs.

Times are Greenwich Mean Civil Time (Noon G.M.T. = 12h., 6 p.m. = 18h.).

At most of the stations the anemometer is on the top of a building. The approximate height above the top of the building in the case of these stations is given in the third column for height. At Spurn Head, Gorleston, Shoeburyness, Dover, Benson, Southport, Holyhead, Quilty, Weaver Point, and Scilly, the instrument is supported on a pole rising direct from the ground or from an iron skeleton tower which does not interfere with the wind sufficiently to affect appreciably the recorded value.

DISTRICT VALUES.—The District Values are the means of the station values for each district except in the case of "Accumulated Temperature" which is computed directly from the District Values of Mean Maximum and Mean Minimum Temperature.

The means of daily maximum, minimum and mean temperature, and the deviation of the mean temperature from the normal are expressed in degrees on the Absolute Scale of temperature. The zero of this scale is 273° C. below 0° C., the freezing point of water, and the degree interval is identical with that of the Centigrade thermometer.

The following rules are followed in making the computation of accumulated temperature in the four cases which may occur :—

Conditions of Temperature.	To obtain the daily Accumulated Temperature.	
	Above 42° F.	Below 42° F.
If the minimum is *above* 42° F. or *equal* to 42° F.	Subtract 42° F. from the mean.	There is none.
If the minimum is *below* 42° F., but the mean for the day is *above* 42° F.	From the difference between the mean for the day and the minimum deduct the accumulated temperature below 42° F., calculated as stated in the next column.	The required quantity is the excess of 42° F. over the minimum, multiplied by the coefficient 0·4.
If the mean for the day is *below* 42° F., but the maximum is *above* 42° F.	The required quantity is the excess of the maximum over 42° F., multiplied by the coefficient 0·4.	From the difference between the mean for the day and the minimum deduct the accumulated temperature above 42° F., calculated as stated in the preceding column.
If the maximum is *below* 42° F. or *equal* to 42° F.	There is none.	Subtract the mean from 42° F.

The average daily values obtained in the manner described are multiplied by 7 to obtain the values for the whole week.

The stations used for the computation of district values have not been the same during the whole period of the Report, but when a station lapses it is if possible replaced by another in the neighbourhood for which the averages of rainfall, temperature and sunshine are similar.

The District Values of Pressure are obtained from the observations at 7 a.m. and 6 p.m. published in the Daily Weather Report for the following stations :—

DISTRICT 0.—Lerwick, Wick, Stornoway, Castlebay.
DISTRICT 1.—Nairn, Aberdeen, Leith.
DISTRICT 2.—Tynemouth, Spurn Head.
DISTRICT 3.—Yarmouth, Clacton.
DISTRICT 4.—Nottingham, Bath.
DISTRICT 5.—Kew, Dungeness, Dover.
DISTRICT 6.—Glasgow, Eskdalemuir.
DISTRICT 7.—Liverpool, Holyhead.
DISTRICT 8.—Pembroke (St. Ann's Head), Newquay, Portland Bill.
DISTRICT 9.—Malin Head, Blacksod Point, Donaghadee.
DISTRICT 10.—Valencia, Roches Point, Birr Castle.
DISTRICT 11.—Scilly, Jersey.

No correction for diurnal range is applied.

NORMALS.—The normals of air temperature and of rainfall and sunshine for the individual stations in Table III are based upon the monthly normals for these stations for the years 1881–1905. The present normals have been in use since 1908.

The averages for Ground Temperature used in Table III. were computed from the weekly values published in the Reports for the years 1907–1911. No correction has been applied to the averages for shorter periods in the case of stations for which values for the whole 5 years were not available.

The normals used in Table V. are derived from the weekly district values published in the Report but they have been adjusted in cases where the selection of stations for the district differed materially from the selection now used. The normals used are obtained from the actual weekly normals for the 25 years 1881–1905, which are smoothed by the formula $\frac{a + 2b + c}{4}$. For certain districts (0, 1, 6) the normals for mean temperature are for 20 years 1886–1905.

METEOROLOGICAL OFFICE,
SOUTH KENSINGTON,
London, S.W.

NAPIER SHAW,
Director.

27th March, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 1

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 1. SUNDAY, JANUARY 2ND TO SATURDAY, JANUARY 8TH, 1916. *Price 6d., Post free 7d.* *Annual Subscription Post Paid £1 10s. 0d.*

I.—THE FIRST WEEK OF 1916.

Temperature was again very high over the whole country, the departure from the average ranging from + 3·3° A. (5·9° F.) in Ireland South to + 5·5° A. (9·9° F.) in England East and the Midland Counties. The excess occurred chiefly during the first five days of the week, and the highest readings were recorded in many cases on Thursday, after which temperature became more normal. Maximum readings of over 285° A. (55° F.) were common in all districts except Scotland North and West. 289° A. (60° F.) was reached at Tynemouth and York, at both stations on Thursday. The minimum readings for the week at many stations did not drop below 277° A. (40° F.) and at only 3 places was 273° A. (32° F.) reached in the screen. There were a few further cases where frost occurred on the grass. The number of rain-days was in excess of the average in nearly all districts, but the quantity of precipitation was rather variable, being generally heavy in the north, and moderate or light in the south. The greatest departure from the normal occurred in Scotland North (+ 45 mm.). Rain fell over all parts of the country on Sunday, heavily in places, over 25 mm. being recorded at several stations. Some heavy falls again occurred on Thursday. Although wet, the north of the country showed an excess of bright sunshine over the average, this ranging up to + 1·0 hour per day in Scotland East. Monday was bright over nearly the whole country. A thunderstorm was reported from Markree Castle on the evening of the 2nd and lightning was seen at isolated stations in different parts of the country on other days. Sea temperature was above the normal except off Scotland North. The greatest excess was 2·2° A. (3·9° F.) at Eastbourne.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		ENGLAND, E.		NORTH WALES.		ENGLAND, S.W.		IRELAND, S.W.	
	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.
		m/s		m/s		m/s		m/s		m/s
South	4	6·2			5	5·6	4	5·5	5	6·2
North	2	4·7	Instrument		2	5·9	2	6·0	2	2·3
West	7	9·7	out of		7	7·4	7	7·7	5	6·2
East	¼	5·1	action.		¼	3·1	¼	1·2	1	1·7
Calm	0	—			0	—	0	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH AVERAGE.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year ...	Warmth ...	Unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual
	Rainfall ...	Very heavy	Heavy	Light	Heavy	Moderate	Moderate	Heavy	Heavy	Heavy	Moderate	Light	Light
	Sunshine ...	Abundant	Very abundant	Abundant	Moderate	Moderate	Moderate	Abundant	Abundant	Moderate	Moderate	Moderate	Moderate

II.—THE WINTER SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

WINTER. 6 weeks from Nov. 28th, 1915.	Warmth ...	1, 2, 3	2, 1, 3	2, 3, 1	3, 3, 0	3, 2, 1	3, 3, 0	2, 2, 2	2, 3, 1	3, 2, 1	2, 2, 2	2, 3, 1	4, 1, 1
	Rainfall ...	2, 4, 0	4, 2, 0	4, 1, 1	6, 0, 0	4, 2, 0	5, 1, 0	4, 2, 0	5, 1, 0	6, 0, 0	4, 2, 0	2, 2, 2	5, 0, 1
	Sunshine ...	1, 4, 1	1, 3, 2	2, 3, 1	0, 4, 2	0, 4, 2	0, 4, 2	2, 3, 1	2, 3, 1	0, 3, 3	1, 4, 1	1, 3, 2	0, 2, 4

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1° A. = increment of $\frac{9}{5}$° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(7027—19.) Wt. 160—610. 450. 1/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Difference from Aver'ge	Rainfall. No. of Rain-Days.	Rainfall in the Week. (in.)	(mm.)	Difference from Average.	Bright Sunshine. Hours per Day. Daily Mean.	Difference from Average	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts	Lowest Reading.	Earth 1 ft. Mean	Difference from Average.	Earth 4 ft. Mean.	Difference from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
0. SCOTLAND, N.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
a, Islands: p *Baltasound*	31													•	•	•	•	•	•	•	•	•	*Baltasound.*
a Lerwick	54	47	6th	36	8th	45·0	40·3	42·7	+ 3·1	7	2·61	66	—	1·4	+ 0·6	23	•	•	•	•	•	•	Deerness.
a Stornoway	51	52	5, 6	40	8th	48·7	42·0	45·5	+ 6·2	7	2·28	58	+ 26	1·0	+ 0·1	16	•	•	•	•	•	•	Stornoway.
a *Castlebay, Barra Isd.*	37	51	3, 5, 6	41	8th	49·9	43·6	46·9	+ 4·9	7	0·98	25	—	0·4	—	6	•	•	•	•	•	•	*Castlebay.*
b, Mainland: a Wick	81	48	6th	37	8th	45·4	39·6	42·6	+ 4·2	7	1·14	29	+ 14	•	•	•	•	•	•	•	•	•	• •
p Strathpeffer	200	53	6th	36	8th	48·0	39·3	43·8	+ 6·7	6	1·73	44	+ 24	1·3	+ 0·3	20	•	•	•	•	•	•	Strathpeffer.
p Glencarron	500	51	4th	34	8th	46·7	39·9	43·4	+ 6·6	7	4·37	111	+ 52	•	•	•	•	•	•	•	•	•	• •
p Fort Augustus	68	51	6th	34	8th	47·6	40·1	44·0	+ 6·2	6	3·34	85	+ 52	0·6	+ 0·2	9	•	•	•	•	•	•	Fort Augustus.
p Fort William	171	52	6th	37	8th	48·4	41·9	45·3	+ 5·8	7	4·58	116	+ 61	•	•	•	•	•	•	•	•	•	• •
1. SCOTLAND, E.														2·1	—	31	1	29	38·8	+2·6	38·7	−0·4	Crathes.
p Gordon Castle	101	52	4, 6	33	8th	48·6	40·0	44·5	+ 6·1	6	0·78	20	+ 6	1·3	•	20	•	•	•	•	•	•	*Gordon Castle.*
a Nairn	82	51	2, 6	36	8th	48·7	40·0	44·5	+ 7·1	6	1·07	27	+ 16	1·0	—	15	•	•	•	•	•	•	Nairn.
a Aberdeen	46	55	6th	38	8th	48·6	41·6	45·2	+ 7·4	4	0·31	8	− 6	2·3	+ 0·9	35	•	•	•	•	40·9	0·0	Aberdeen.
a Balmoral	930	50	2nd	35	4th	47·4	37·6	42·7	+ 8·2	5	1·25	32	+ 14	•	•	•	0	32	•	•	•	•	Balmoral.
p Crieff	432	52	6th	33	8th	48·4	38·1	43·5	+ 6·2	6	2·35	60	+ 37	1·9	—	28	•	•	•	•	•	•	Balruddery.
a Leith	18	56	6th	38	8th	51·4	42·6	47·2	+ 7·9	5	0·71	18	+ 8	•	•	•	•	•	•	•	•	•	• •
a West Linton	769	52	6th	32	8th	47·9	36·4	42·4	+ 7·6	6	1·24	31	—	1·1	—	16	1	28	•	•	•	•	*West Linton.*
p Marchmont	498	51	2, 4	32	8th	47·3	37·9	42·8	+ 6·1	4	0·23	6	− 8	2·3	+ 1·0	33	0	31	•	•	•	•	Marchmont.
a *Edinburgh*	441	57	5th	36	8th	50·1	40·3	45·4	—	4	0·69	18	—	2·1	—	30	0	32	•	•	•	•	Edinburgh.
6. a, SCOTLAND, W.																							
a Poltalloch	132	51	2, 6, 7	41	3, 8	49·6	42·6	46·2	+ 6·6	7	2·23	57	+ 28	•	•	•	•	•	•	•	•	•	• •
p Glasgow Observatory	180	52	2, 6	40	8th	49·0	42·1	45·7	+ 6·9	7	1·37	35	+ 15	1·1	+ 0·5	16	0	34	•	•	•	•	Glasgow.
p Rothesay	170	52	2, 6	39	7, 8	48·4	40·9	44·8	+ 4·9	7	2·28	58	+ 32	0·8	—	12	0	32	42·4	•	43·3	+0·3	*Rothesay.*
a Kilmarnock	90	53	2, 5, 6	35	8th	50·3	40·4	45·6	+ 5·6	7	1·25	32	—	0·8	—	11	•	•	•	•	•	•	*Kilmarnock.*
a Colmonell	170	53	2, 5, 6	40	8th	50·4	42·3	46·5	+ 6·1	6	0·87	22	− 5	•	•	•	0	36	•	•	•	•	• •
a Dumfries	160	54	2nd	39	8th	49·4	41·1	45·4	+ 6·8	5	0·72	18	− 3	1·6	—	23	0	35	42·1	•	41·4	•	*Dumfries.*
Eskdalemuir	799	50	2, 6	35	8th	47·1	38·3	42·9	—	6	2·29	58	—	?1·1	—	16	•	•	•	•	•	•	*Eskdalemuir.*
p Cally, Gatehouse	120	51	6th	38	8th	48·3	40·1	44·4	+ 5·9	6	1·30	33	+ 6	•	•	•	•	•	•	•	•	•	• •
b. I. OF MAN. p Douglas	277	53	6th	40	8th	49·4	42·9	46·3	+ 5·1	6	0·99	25	+ 2	1·6	+ 0·1	22	0	38	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
a, North: a Alnwick Castle	210	56	6th	39	8th	51·3	41·7	46·7	+ 8·4	4	0·14	4	− 10	1·9	—	27	0	31	40·8	+3·8	41·4	+1·2	Cockle Park.
a Tynemouth	71	60	6th	39	8th	50·4	43·1	46·9	+ 8·0	1	0·04	1	− 9	•	•	•	•	•	•	•	•	•	*Tynemouth.*
p Durham	336	59	6th	33	8th	50·6	38·9	45·0	+ 7·6	2	0·06	2	− 8	2·1	+ 0·7	30	0	31	•	•	•	•	Durham.
p Rounton	249	56	6th	30	8th	50·9	39·9	45·6	+ 8·1	3	0·04	1	− 9	•	•	•	1	25	41·3	•	•	•	Rounton.
a *West Witton*	605	53	2nd	38	8th	49·3	41·4	45·5	—	6	0·63	16	—	•	•	•	0	32	41·4	•	40·2	•	*West Witton.*
p Scarborough	100	57	7th	38	8th	53·4	42·1	48·0	+ 9·1	1	0·12	3	− 9	1·6	—	22	•	•	•	•	42·0†	•	Scarborough.
p York	56	60	6th	35	8th	54·0	41·6	48·1	+ 9·9	4	0·09	2	− 8	2·2	+ 1·3	30	•	•	42·9	+3·7	43·5	+0·6	York.
b, South: a Spurn Head	26	53	4, 6	39	2nd	48·9	41·4	45·3	+ 6·2	4	0·24	6	− 3	0·9	—	12	•	•	•	•	•	•	*Spurn Head.*
a Lincoln	58	59	6th	41	2, 6	53·1	43·4	48·4	+11·0	3	0·37	9	− 1	•	•	•	•	•	41·4	+6·4	42·7	−0·1	Lincoln.
a Fulbeck	180	55	2, 6	39	5, 8	51·0	41·3	46·3	+ 9·0	7	0·52	13	+ 3	1·4	—	19	0	32	44·0	+4·5	44·5	+0·6	Rauceby.
														1·6	—	22	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																							
a, North: p Cromer	196	55	2, 6	40	8th	50·4	42·6	46·7	+ 9·4	6	0·66	17	—	0·9	—	12	•	•	•	•	•	•	Cromer.
p Little Massingham	280	56	5th	37	8th	52·7	39·9	46·6	+ 9·3	5	0·91	23	+ 11	1·4	0·0	18	0	34	•	•	•	•	Lit. Massingham.
a Yarmouth	13	56	2nd	40	6, 8	51·1	41·9	46·7	+ 8·6	4	0·87	22	+ 11	1·3	—	17	•	•	44·1	+5·1	46·1	+2·6	Yarmouth.
a Norwich	93	55	2, 4, 6	41	5, 6, 8	51·1	43·0	47·2	+ 9·3	5	1·04	26	—	1·3	—	17	0	36	43·3	•	•	•	*Norwich.*
a Geldeston	37	56	2nd	40	8th	51·4	42·4	47·1	+ 8·6	6	0·93	24	+ 14	1·1	− 0·5	14	•	•	•	•	•	•	Geldeston.
b, South: p Cambridge	41	55	2, 3, 4, 6	37	8th	52·9	41·3	47·3	+ 9·3	3	0·64	16	+ 8	1·3	− 0·2	17	0	32	44·4	+5·4	45·3	+1·6	Cambridge.
a Clacton-on-Sea	54	54	6th	40	8th	50·1	42·4	46·4	+ 7·7	4	0·42	11	—	1·3	—	17	0	37	44·6	+3·8	45·8	0·0	Clacton.
a Rothamsted	424	54	6th	38	6, 8	51·3	41·6	46·6	+ 8·8	4	1·20	30	+ 18	1·3	− 0·2	17	1	30	43·9	•	•	•	Rothamsted.
p Tottenham	51	56	6th	41	8th	54·0	44·3	49·3	+10·4	4	0·79	20	—	1·3	—	17	0	39	•	•	46·3	+1·1	Tottenham.
4. MIDLAND COUNTIES.																							
a North: a Harrogate	479	54	2, 4, 6	37	8th	49·7	40·9	45·5	+ 8·3	5	0·26	7	− 7	1·7	—	23	0	33	41·8	+2·6	42·0	+0·8	Harrogate.
p *Buxton*	987	52	6th	39	4–6, 8	48·3	39·7	44·2	+ 8·5	7	1·95	50	+ 21	0·6	•	8	0	33	41·3	+2·6	41·5	−1·8	*Buxton.*
														1·6	—	22	0	37	42·6	+4·0	42·9	0·0	Sheffield.
b, East: a Bawtry	65	57	6th	39	8th	51·7	41·9	47·0	+ 9·2	5	0·17	4	− 6	1·2	+ 0·1	16	2	29	42·6	•	43·1	•	Worksop.
a Nottingham	82	56	2, 4, 6	41	2, 4–6	52·0	42·4	47·4	+ 9·4	6	0·63	16	+ 5	1·1	—	15	0	35	43·1	+5·6	42·3	+0·9	Nottingham.
p Birmingham, Edgbsn.	535	55	2nd	39	8th	51·0	41·1	46·3	+ 8·4	6	0·65	17	+ 5	1·4	—	18	0	34	44·5	+4·2	45·3	+0·2	Birmingham.
a Raunds	203	55	2, 4, 6	38	6, 8	52·3	41·0	46·9	+ 9·4	4	0·91	23	—	1·7	—	22	4	29	43·8	•	46·0	•	*Raunds.*
p Oxford	208	55	2nd	39	8th	52·1	43·0	47·7	+ 8·8	5	0·83	21	+ 10	1·6	+ 0·1	21	0	34	•	•	•	•	Oxford.
c, West: a Cheadle	646	54	2nd	36	6th	49·4	39·6	44·7	+ 7·6	7	0·89	23	+ 8	•	•	•	0	32	•	•	•	•	Cheadle.
p Shrewsbury	191	57	4th	40	5th	52·9	42·4	47·9	+ 8·8	4	0·36	9	—	•	•	•	0	34	•	•	•	•	Shrewsbury.
a Hereford§	291	57	5, 6	39	8th	53·1	43·9	48·7	+10·2	5	0·36	9	− 4	1·5	—	20	0	32	43·8	—	44·0	—	*Malvern.*§
a Cirencester	446													•	•	•	•	•	•	•	•	•	Cirencester.
a Bath	66	57	2nd	40	8th	54·1	45·3	49·9	+10·1	4	0·85	22	+ 7	1·3	—	17	•	•	45·9	+4·5	46·0	0·0	Bath.
5. ENGLAND, S.E.														1·2	—	15	0	34	45·9	+5·6	46·7	+1·4	Worthing.
a Marlborough	424	54	2nd	36	8th	51·4	42·7	47·2	+ 9·4	6	0·98	25	+ 10	1·3	+ 0·1	17	1	29	45·1	•	45·4	•	Marlborough.
a Margate	53	57	6th	40	2nd	52·9	44·0	48·6	+ 8·9	4	0·59	15	+ 5	0·9	− 0·6	12	0	38	46·2	+5·5	46·3	+2·4	Margate.
a Wisley, Surrey	150	55	2, 6	39	8th	52·1	44·6	48·5	+ 9·1	4	0·38	10	—	1·2	—	16	0	31	45·4	+5·5	45·6	+1·7	Wisley.
p Salisbury (Wilton)	180													•	•	•	•	•	•	•	•	•	Salisbury.
a Tunbridge Wells	354	54	6th	39	8th	51·6	43·3	47·6	+ 9·5	3	0·59	15	0	1·0	− 0·4	13	0	33	45·3	+5·8	46·1	•	Tunbridge Wells.
a Dungeness	21	53	3rd	38	8th	49·7	45·3	47·6	+ 7·6	4	0·48	12	+ 1	•	•	•	•	•	•	•	•	•	Littlestone.
p Hastings	178	53	3rd	38	8th	50·7	43·3	47·2	+ 7·1	6	0·44	11	− 3	1·5	—	19	0	35	45·5	•	46·2	•	Hastings.
p Southampton	64	55	6th	40	8th	52·4	43·9	48·3	+ 8·3	5	0·61	16	0	1·4	− 0·2	18	0	31	•	•	•	•	Southampton.
a Ventnor	59	53	3rd	40	8th	51·3	46·7	49·1	+ 6·6	6	0·44	11	− 4	1·9	+ 0·2	24	•	•	•	•	•	•	Ventnor.
LONDON. p Kew	18	55	2, 6	40	8th	53·1	43·0	48·3	+ 9·1	4	0·64	16	+ 6	1·1	− 0·2	14	0	33	45·3	+5·5	45·7	+0·9	Kew.
a *Westminster*	27	56	2, 6	40	8th	53·3	45·3	49·5	+10·3	4	0·69	18	+ 8	0·8	+ 0·3	10	0	33	•	•	•	•	*Westminster.*
a *Greenwich*	155	55	2, 6	40	8th	52·4	44·1	48·4	+ 8·5	3	0·73	19	+ 9	0·9	− 0·3	12	0	33	•	•	•	•	*Greenwich.*
a *Hampstead*	450	53	6th	37	8th	50·3	42·0	46·3	—	4	0·82	21	—	1·0	—	13	1	28	•	•	•	•	*Hampstead.*
a *Camden Square*	110	56	6th	39	8th	52·9	44·4	48·8	—	4	0·77	20	—	0·7	—	9	0	34	•	•	•	•	*Camden Square.*
7. a, ENGLAND, N.W.														1·4	—	19	•	•	•	•	•	•	Hoylake.
p Aspatria	250	52	6th	37	8th	48·3	40·7	44·7	+ 6·4	6	0·90	23	+ 5	1·2	—	17	0	34	42·7	—	43·2	—	Aspatria.
p Newton Rigg	559	56	6th	35	8th	49·9	41·0	45·6	+ 8·6	7	0·91	23	+ 3	1·4	+ 0·2	20	1	24	41·8	+2·9	41·2	−0·4	Newton Rigg.
p Stonyhurst	375	54	4, 6	38	8th	50·3	40·7	45·7	+ 7·4	7	1·70	43	+ 18	1·3	+ 0·3	18	0	36	•	•	•	•	Stonyhurst.
p Blackpool	66	54	4th	42	8th	50·3	44·0	47·3	+ 8·2	5	0·59	15	− 1	1·3	+ 0·3	18	0	37	44·1	•	45·0	•	Blackpool.
a *Southport*	37	54	4, 6	42	8th	51·0	44·1	47·7	+ 8·6	5	0·61	15	− 1	1·8		24	0	37	42·4	+4·3	41·8	+0·2	*Southport.*
a Liverpool (Bidston)	188	58	6th	42	8th	52·9	43·6	48·4	+ 8·2	5	0·67	17	+ 4	1·9	—	26	•	•	•	•	•	•	*Liverpool.*
a Hawarden Bridge	22	58	2nd	43	6, 8	54·0	45·4	49·9	+ 9·2	5	0·22	6	− 5	0·6	—	8	0	39	43·5	+4·7	43·6	−0·2	*Manchester (City)*
p Manchester (Whit. Pk.)	125	57	6th	41	5, 6	52·7	42·9	48·0	+ 8·8	6	1·19	30	+115	0·6	+ 0·1	8	•	•	•	•	•	•	" (Whit. Park)
b NORTH WALES.																							
p Llandudno	71	57	2, 4	43	8th	53·9	44·3	49·3	+ 7·5	3	0·28	7	− 8	1·2	− 0·2	16	•	•	•	•	•	•	Llandudno.
a Holyhead	15	53	2nd	43	8th	50·4	46·0	48·3	+ 6·0	4	0·56	14	− 5	1·4	—	19	•	•	•	•	•	•	*Holyhead.*
p Bettws-y-Coed	148	54	6th	42	7, 8	51·1	44·1	47·7	+ 6·4	7	2·08	53	—	0·3	—	11	•	•	45·3	+4·9	45·3	+0·9	Bettws-y-Coed.
														0·9	—	12	•	•	•	•	•	•	Aberdovey.

† At 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.				Mean for the Week.				Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Of Daily Max.	Of Daily Min.	Daily Mean.	Difference from Aver'ge	No. of Rain-Days.	Rainfall in the week.		Difference from Average.	Daily Mean	Difference from Average.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm	hr.	hr.	%	°F.	F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES.														1·6	—	21	*	*	*	*	*	*	Aberystwyth.
a Llangammarch Wells	550	53	2nd	39	8th	49·9	42·7	46·4	+ 8·8	6	1·89	48	—	1·2	—	16	0	33	44·7	+3·9	45·3	-0·1	Llangammarch.
a Pembroke	149	53	2nd	44	8th	50·3	47·3	48·9	+ 5·6	7	0·77	20	- 1	1·8	+ 0·2	23	*	*	*	*	*	*	Pembroke.
p Cardiff	202	54	2nd	40	8th	50·9	43·6	47·4	+ 7·8	7	1·79	45	+ 22	*1·3*	—	*17*	0	35	45·6	+5·4	45·5	+0·9	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	55	4th	41	8th	51·7	45·0	48·5	+ 8·0	5	1·98	50	+ 33	*1·2*	—	*16*	0	37	*	*	*	*	*Clifton.*
a Shaftesbury	722	52	2, 6	37	8th	50·0	42·1	46·2	+ 8·2	6	0·72	18	+ 3	*	*	*	*	*	45·4	*	45·6	*	Shaftesbury.
a Arlington	613	54	2nd	40	8th	50·3	44·0	47·3	+ 7·5	6	2·28	58	+ 28	*	*	*	*	*	*	*	*	*	Arlington.
a Newquay	*190*	*56*	*2nd*	*42*	*6, 8*	*52·4*	*46·1*	*49·4*	+ *5·1*	*5*	*0·41*	*10*	- *9*	1·7	+ 0·1	21	0	37	48·0	*	47·8	*	Newquay.
a Cullompton	202	57	2nd	38	8th	52·9	44·1	48·7	+ 8·5	6	0·45	12	- 8	1·9	+ 0·6	24	1	30	46·6	*	*	*	Cullompton.
a Portland Bill	19	53	2, 4	46	8th	51·7	48·4	50·1	+ 7·6	6	0·44	11	—	*2·0*	—	*35*	*	*	*	*	*	*	*Weymouth.*
p Plymouth	116	54	2, 3	42	7th	52·4	48·1	49·4	+ 6·7	7	0·54	14	- 8	1·9	+ 0·3	24	*	*	47·9	+4·8	48·0	*	Plymouth.
a Falmouth	167	54	2nd	42	8th	51·9	46·3	49·2	+ 5·1	7	0·80	20	- 9	1·5	- 0·3	19	0	37	48·2	*	48·4	*	Falmouth.
9. IRELAND, N.																							
a Malin Head	208	52	5th	39	5th	49·4	41·1	45·4	+ 3·9	7	0·83	21	+ 4	*0·8*	—	*11*	*	*	*	*	*	*	*Malin Head.*
a, West .. *a* Blacksod Point	?	52	8th	40	2, 5, 8	49·9	41·7	46·0	+ 3·1	7	1·02	26	- 4	*	*	*	*	*	*	*	*	*	*
p Markree Castle ..	122	56	6th	37	7th	51·9	40·7	46·5	+ 6·6	7	0·89	23	0	1·3	+ 0·1	18	0	32	43·9	*	45·1	*	Markree Castle.
a Birr Castle	175	56	2, 3, 6	39	8th	53·1	42·1	47·8	+ 7·8	7	0·83	21	+ 4	*1·5*	*0·0*	*20*	*	*	*	*	*	*	*Birr Castle.*
b, East .. *p* Armagh	196	54	2, 6	38	8th	50·7	40·4	45·8	+ 6·0	6	0·62	16	+ 1	1·6	+ 0·3	22	0	33	43·4	+2·5	44·5	+0·3	Armagh.
a Donaghadee	101	55	2, 6	40	8th	51·4	42·3	47·0	+ 6·1	6	0·40	10	- 6	*	*	*	*	*	*	*	*	*	*
10. IRELAND, S.																	0	31	44·8	+3·5	45·6	+1·0	Trinity Coll.
p Dublin, City	47	58	2, 6	39	7, 8	53·3	42·9	48·3	+ 6·4	6	0·43	11	- 1	1·6	- 0·2	22	0	35	*	*	*	*	Phœnix Park.
a, East .. *a* Kilkenny	212	57	2nd	39	2, 5, 6, 8	53·6	40·6	47·4	+ 6·9	7	0·37	9	- 10	*	*	*	0	35	*	*	*	*	Dublin City.
a Waterford	20	55	6th	39	8th	52·3	42·3	47·5	+ 5·7	5	0·28	7	- 16	*	*	*	*	*	*	*	*	*	*
a Seskin, Carrick-on-Suir	*541*	*57*	*6th*	*35*	*8th*	*52·4*	*40·6*	*46·7*	—	*7*	*0·31*	*8*	—	*2·0*	—	*26*	0	32	*	*	*	*	*Seskin.*
a Birr Castle	175	56	2, 3, 6	39	8th	53·1	42·1	47·8	+ 7·8	7	0·83	21	+ 4	1·5	0·0	20	*	*	*	*	*	*	Birr Castle.
a Foynes	50	57	3rd	41	5th	52·0	42·7	47·5	+ 5·2	6	0·99	25	+ 2	*	*	*	*	*	*	*	*	*	*
b, West .. *a* Cahir	199	55	2nd	35	2nd	52·0	39·4	46·0	+ 4·3	7	0·36	9	—	*	*	*	*	*	*	*	*	*	*
a Killarney	174	57	2, 6	43	8th	53·6	44·7	49·3	+ 6·5	7	0·92	23	- 15	*	*	*	*	*	*	*	*	*	*
a Valencia	30	55	2nd	44	8th	52·7	45·6	49·3	+ 4·2	7	0·75	19	- 15	1·0	- 0·5	13	*	*	*	*	*	*	Valencia.
a Roche's Point ..	32	54	2, 6	43	5, 8	52·3	44·9	48·8	+ 4·9	7	0·56	14	- 14	*	*	*	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	54	2nd	45	6, 8	52·0	47·0	49·6	+ 3·1	7	0·51	13	- 7	1·2	- 0·6	15	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	55	2, 6	44	6th	53·3	47·3	50·4	+ 7·1	3	0·28	7	- 13	2·4	+ 0·3	30	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	54	2, 3, 6	45	6, 8	52·3	47·4	50·0	+ 5·9	5	0·23	6	- 15	2·1	+ 0·6	26	0	37	48·6	+4·1	48·8	+0·9	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, January 8th, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Height. Above Ground.	Height. Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Gales, force 8 or more. Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	High Winds, forces 6 and 7. Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.	Date and Hour.	Highest Gust with Date and Time.
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.	m/s. d. h. m.
1. SCOTLAND, E.														
Dyce	220	75	‡15**	—	—	—	—	77	86	5	0	NW. by W.	10 7th 14h.	26 7th 14 . 24
Aberdeen*	153	105 {37 52} ‖		7th	2	3, 5, 7, 8	25	106	33	2	0	WNW.	18 7th 14h.	29 7th 13 . 51
Edinburgh	485	39	31	4th	4	2 to 7	56	80	4	0	24	S. by W.	19 4th 8h.	31 4th 8 . 8
6. SCOTLAND, W.														
Eskdalemuir	850	50	22	4th	3	2 to 7	64	80	12	9	0	S. by W.	19 4th 8h.	29 7th 1 . 30
Paisley	188	81	52	—	—	2, 4, 5	10	108	50	0	0	SW. by S.	14 4th 4h.	28 4th 4 . 34
2. ENGLAND, N.E.														
Alnwick Castle	340	70	17	—	—	—	—	55	89	24	0	W.	11 4th 10h.	24 5th 5 . 27
South Shields	72	61	12	—	—	2 to 7	50	65	51	2	0	W. by N.	17 6th 14h.	26 5th 2 . 30
Spurn Head	66	40	‡	—	—	2 to 8	68	93	3	0	4	—	16 3rd 13h.	23 3rd 14 . 27
3. ENGLAND, E.														
Gorleston	52	42	‡	—	—	2, 4	9	125	34	0	0	—	13 2nd 15h.	19 3rd 12 . 9
Shoeburyness	103	90	‡	—	—	2, 4, 7	14	131	23	0	0	—	14 4th 18h.	23 2nd 0 . 44
4. MIDLAND COUNTIES.														
Benson	270	84	‡	—	—	4th	10	105	53	0	0	SW.	12 4th 12h.	22 4th 21 . 39
5. ENGLAND, S.E.														
Dover	271	40	‡	—	—	2 to 4, 6 to 8	68	68	4	0	28	—	16 4th 23h.	22 4th 23 . 18
Warlingham	642	33	‡	—	—	—	—	79	89	0	0	—	11 4th 20h.	21 2nd 20 . 21
Brighton	261	53	6	—	—	—	—	13	42	46	67	—	8 4th 23h.	14 4th 21 . 11
Kew	82	65 {6 22} ‖		—	—	4th	3	91	74	0	0	SW.	11 4th 19h.	19 4th 18 . 35
South Kensington ..	123	92	30	—	—	—	—	15	131	22	0	SW. by W.	7 4th 14h.	13 4th 14 . 2
7. ENGLAND, N.W.														
Carnforth	246	56	23	—	—	7th	2	106	54	6	0	W. by S.	11 7th 15h.	18 4th 10 . 58
Southport	80	62	48	7th	8	2 to 8	97	62	1	0	0	W. by N.	20 7th 18h.	25 4th 13 . 36
Holyhead*	60	40	‡	7th	4	2 to 8	93	64	7	0	0	NW. by W.	20 7th 20h.	27 7th 19 . 50
8. ENGLAND, S.W.														
Pendennis Castle§ ..	256	65	24	2 to 4, 6	36	2 to 4, 6 to 8	65	58	8	1	0	SW.	22 2nd 13h.	30 2nd 12 . 9
Plymouth	185	88	2	—	—	2 to 4	25	88	51	2	2	—	14 4th 20h.	22 4th 19 . 51
10. IRELAND, S.														
Quilty	100	40	‡	—	—	2 to 7	62	89	13	0	4	—	17 2nd 12h.	24 2nd 11 . 47
Weaver Pt.	160	30	‡	—	—	2 to 4, 6	34	104	30	0	0	—	17 4th 8h.	25 4th 8 . 10
11. ENGLAND, CHANNEL.														
Scilly*	150	{32 19}	‡	—	—	2 to 4, 6 to 8	71	83	14	0	0	WNW.	17 7th 19h.	23 7th 21 . 0

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.

‖ Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew), and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the averages for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the difference of the mean temperature from the average are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

FIRST WEEK—January 2nd to January 8th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Difference from Average. (25 Years.)	Total Fall.		Difference from Average. (25 Years.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	
			Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (25 Yrs.)	Above 42°	Difference from Av. (25 Yrs.)	Below 42°	Difference from Av. (25 Yrs.)									
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	53	34	81·4	77·7	79·6	+ 3·4	20	+ 14	4	− 33	7	+ 2	2·86	73	+ 45	1·1	+0·4	17	1000
Eastern.																			
1. SCOTLAND, EAST ...	56	32	82·2	77·1	79·7	+ 4·3	26	+ 21	8	− 36	5	+ 1	0·99	25	+ 10	2·0	+1·0	29	1004
2. ENGLAND, N.E.	60	30	83·8	78·3	81·2	+ 5·0	35	+ 29	1	− 36	3	− 1	0·18	5	− 6	1·8	+0·7	25	1011
3. ENGLAND, EAST ...	56	37	83·9	78·7	81·4	+ 5·5	36	+ 28	0	− 42	5	+ 1	0·83	21	+ 10	1·2	−0·1	16	1017
4. MIDLAND COUNTIES ...	57	36	84·0	78·7	81·4	+ 5·5	36	+ 27	0	− 42	5	+ 1	0·59	15	+ 1	1·4	+0·2	19	1018
5. ENGLAND, S.E.	57	36	83·9	79·7	81·9	+ 5·0	42	+ 30	0	− 32	5	+ 1	0·57	15	+ 1	1·3	−0·1	16	1020
Western.																			
6. SCOTLAND, WEST ...	54	35	82·7	78·3	80·6	+ 3·9	27	+ 19	1	− 30	6	+ 1	1·38	35	+ 7	1·4	+0·4	19	1009
7. ENGLAND, N.W.	58	35	83·8	79·3	81·6	+ 4·7	39	+ 29	0	− 30	6	+ 2	0·91	23	+ 6	1·2	+0·2	16	1015
8. ENGLAND, S.W.	57	37	83·7	80·2	82·0	+ 4·0	43	+ 27	0	− 23	6	+ 1	1·17	30	+ 7	1·7	+0·2	21	1021
9. IRELAND, NORTH ...	56	37	83·6	78·2	81·0	+ 3·4	33	+ 21	2	− 23	7	+ 2	0·77	20	− 1	1·5	+0·3	20	1011
10. IRELAND, SOUTH ...	58	35	84·6	79·0	81·9	+ 3·3	42	+ 22	0	− 19	7	+ 2	0·61	15	− 12	1·4	−0·1	18	1018
11. ENGLISH CHANNEL ...	55	44	84·4	81·4	83·0	+ 5·1	56	+ 30	0	− 9	5	0	0·34	9	− 11	1·9	0·0	23	1024

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 6 Weeks, November 28th, 1915, to January 8th, 1916.

0. SCOTLAND, NORTH ...	53	16	78·7	74·4	76·7	− 0·2	28	− 24	175	− 9	37	+ 5	9·64	245	+ 47	0·6	−0·1	9	999
Eastern.																			
1. SCOTLAND, EAST ...	56	8	78·7	73·6	76·2	0·0	33	− 13	213	− 18	33	+ 9	6·83	173	+ 74	0·8	−0·2	12	1000
2. ENGLAND, N.E.	60	22	80·5	75·3	77·9	+ 0·9	76	+ 21	130	− 53	31	+ 8	5·64	144	+ 70	1·2	0·0	17	1002
3. ENGLAND, EAST ...	58	21	81·7	76·3	79·2	+ 2·5	123	+ 61	92	−118	32	+ 9	5·30	134	+ 65	1·1	−0·3	14	1006
4. MIDLAND COUNTIES ...	59	18	81·4	75·4	78·6	+ 1·9	117	+ 51	123	− 92	33	+10	6·18	158	+ 77	1·0	−0·2	13	1005
5. ENGLAND, S.E.	63	17	82·5	77·4	80·1	+ 2·3	176	+ 80	55	− 96	32	+ 9	8·30	212	+124	1·1	−0·4	14	1007
Western.																			
6. SCOTLAND, WEST ...	54	21	79·8	75·2	77·6	− 0·1	53	− 20	129	− 15	35	+ 7	9·11	232	+ 49	1·0	0·0	14	1001
7. ENGLAND, N.W.	58	23	80·8	76·1	78·6	+ 0·9	90	+ 13	106	− 38	34	+ 9	7·85	200	+ 84	1·0	−0·1	13	1002
8. ENGLAND, S.W.	58	22	82·6	77·7	80·2	+ 1·5	180	+ 59	48	− 59	36	+ 9	10·81	275	+124	1·1	−0·4	14	1006
9. IRELAND, NORTH ...	56	19	81·1	75·8	78·6	+ 0·5	92	+ 7	114	− 14	37	+ 7	7·05	178	+ 48	1·2	−0·1	16	999
10. IRELAND, SOUTH ...	58	20	82·3	76·6	79·6	+ 0·5	161	+ 24	73	− 25	35	+ 6	7·62	192	+ 37	1·4	−0·1	19	1002
11. ENGLISH CHANNEL ...	57	30	84·0	79·9	82·1	+ 1·4	274	+ 79	7	− 23	35	+ 5	9·17	234	+101	1·5	−0·4	18	1007

THE YEAR.—Aggregates, &c., for the Period of 1 Week, January 2nd to January 8th, 1916.

0. SCOTLAND, NORTH ...	53	34	81·4	77·7	79·6	+ 3·4	20	+ 14	4	− 33	7	+ 2	2·86	73	+ 45	1·1	+0·4	17	1000
Eastern.																			
1. SCOTLAND, EAST ...	56	32	82·2	77·1	79·7	+ 4·3	26	+ 21	8	− 36	5	+ 1	0·99	25	+ 10	2·0	+1·0	29	1004
2. ENGLAND, N.E.	60	30	83·8	78·3	81·2	+ 5·0	35	+ 29	1	− 36	3	− 1	0·18	5	− 6	1·8	+0·7	25	1011
3. ENGLAND, EAST ...	56	37	83·9	78·7	81·4	+ 5·5	36	+ 28	0	− 42	5	+ 1	0·83	21	+ 10	1·2	−0·1	16	1017
4. MIDLAND COUNTIES ...	57	36	84·0	78·7	81·4	+ 5·5	36	+ 27	0	− 42	5	+ 1	0·59	15	+ 1	1·4	+0·2	19	1018
5. ENGLAND, S.E.	57	36	83·9	79·7	81·9	+ 5·0	42	+ 30	0	− 32	5	+ 1	0·57	15	+ 1	1·3	−0·1	16	1020
Western.																			
6. SCOTLAND, WEST ...	54	35	82·7	78·3	80·6	+ 3·9	27	+ 19	1	− 30	6	+ 1	1·38	35	+ 7	1·4	+0·4	19	1009
7. ENGLAND N.W.	58	35	83·8	79·5	81·6	+ 4·7	39	+ 29	0	− 30	6	+ 2	0·91	23	+ 6	1·2	+0·2	16	1015
8. ENGLAND, S.W.	57	37	83·7	80·2	82·0	+ 4·0	43	+ 27	0	− 23	6	+ 1	1·17	30	+ 7	1·7	+0·2	21	1021
9. IRELAND NORTH ...	56	37	83·6	78·2	81·0	+ 3·4	33	+ 21	2	− 23	7	+ 2	0·77	20	− 1	1·5	+0·3	20	1011
10. IRELAND, SOUTH ...	58	35	84·6	79·0	81·9	+ 3·3	42	+ 22	0	− 19	7	+ 2	0·61	15	− 12	1·4	−0·1	18	1018
11. ENGLISH CHANNEL ...	55	44	84 4	81·4	83·0	+ 5·1	56	+ 30	0	− 9	5	0	0·34	9	− 11	1·9	0·0	23	1024
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	m.m.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., January 13th, 1916.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 5

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 2. SUNDAY, JANUARY 9TH TO SATURDAY, JANUARY 15TH, 1916. *Price 6d., Post free 7d. Annual Subscription Post Paid £1 10s. 0d.*

I.—THE SECOND WEEK OF 1916.

Another abnormally mild period was experienced all over the British Isles, the temperature in the various districts showing an excess of from 1·9° A. (3·4° F.) in the English Channel to 3·8° A. (6·8° F.) in Ireland South. High afternoon maxima were experienced daily, in very numerous instances exceeding 283° A. (50° F.), on several days reaching 285° A. (54° F.), and in the English Channel mounting to 286° A. (56° F.). As a general rule the nights also were mild, with minimum shade temperatures of 277° A. (40° F.) and upwards, but at the commencement and towards the close of the week slight frost occurred at a few places in England and Scotland, the lowest reading registered being 270° A. (27° F.) at Rounton on the 14th. Under these circumstances the records of nocturnal radiation temperatures were of an unimportant character. In the north of Scotland rain fell every day; elsewhere the frequency was very variable, there being only two rain days in England North-East. The quantity of precipitation was heavy in Scotland North, where the week's total was 76 per cent. above the average, whereas in all other divisions the results showed a deficiency, which ranged from a loss of 40 per cent. in Scotland West to 77 per cent. in England South East, and 83 per cent. in Ireland South. At Fort Augustus there was a fall of 21 mm. on the 14th, but there was no other record of as much as 20 mm. Slight snow fell at Balmoral on the 13th, and at West Linton on the 14th; hail at Southport on the 13th. The duration of bright sunshine was rather variable, ranging from a deficiency of 1·2 hour per day in Ireland South to an excess of 0·6 hour per day in England East. Aberdeen reported an aurora on the 11th, and again on the 12th. On the former date there was a good display at Alston, Cumberland. Earth tremors were experienced on the evening of the 14th at Fulbeck, Craven Arms, Shrewsbury and other midland districts. Sea temperature was above the average excepting off the north of Scotland, the excess ranging up to 2° A. (3·3° F.) off Eastbourne.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		ENGLAND, E.		NORTH WALES.		ENGLAND, S.W.		IRELAND, S.W.	
	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.
		m/s		m/s		m/s		m/s		m/s
South	3	6·1	1	2·0	3	2·8	¼	1·6	4	2·3
North	4	7·1	6	3·2	3	6·3	5	4·6	2	3·2
West	7	10·3	6	5·4	7	8·3	7	6·3	6	4·6
East	0	0·0	¼	0·6	0	0·0	0	0·0	¼	0·9
Calm	0	—	0	—	0	—	0	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH AVERAGE.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year ... Warmth ...	Unusual	Unusual	Very unusual	Unusual	Very unusual	Unusual	Very unusual	Unusual	Unusual	Very unusual	Unusual	Unusual
Rainfall ...	Heavy	Light	Light	Light	Light	Light	Moderate	Light	Light	Light	Very light	Light
Sunshine ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Abundant	Moderate	Scanty	Scanty	Scanty	Scanty

II.—THE WINTER SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

WINTER. 7 weeks from Nov. 28th, 1915. Warmth ...	2, 2, 3	3, 1, 3	3, 3, 1	4, 3, 0	4, 2, 1	4, 3, 0	3, 2, 2	3, 3, 1	4, 2, 1	3, 2, 2	3, 3, 1	5, 1, 1
Rainfall ...	3, 4, 0	4, 2, 1	4, 1, 2	6, 0, 1	4, 2, 1	5, 1, 1	4, 2, 1	5, 1, 1	6, 0, 1	4, 2, 1	2, 2, 3	5, 0, 2
Sunshine ...	1, 5, 1	1, 4, 2	2, 4, 1	0, 5, 2	0, 5, 2	0, 5, 2	3, 3, 1	2, 4, 1	0, 3, 4	1, 4, 2	1, 3, 3	0, 2, 5

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.

Increment of 1° A. = increment of $\frac{5}{9}$° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(7084—19.) Wt. 160—610. 450. 1/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880. GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Difference from Aver'ge	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	
0. SCOTLAND, N.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
p Baltasound	*31*																					*Baltasound.*
a Lerwick	54	48	9th	32	14th	43·6	35·3	39·6	+ 0·3	7	3·11	79	—	0·7	- 0·2	11	•	•	•	•	•	•	Deerness.
a, Islands .. *a* Stornoway	51	50	9, 12, 14	35	14th	47·3	38 3	43·0	+ 3·8	7	1·34	34	+ 3	0·6	- 0·3	9	•	•	•	•	•	•	Stornoway.
a Castlebay, Barra Isd. ..	*37*	*50*	*9, 10, 14*	*37*	*14th*	*48·7*	*41·4*	*45·2*	+ *3·4*	*5*	*0·50*	*13*	—	*0·1*	—	*1*	•	•	•	•	•	•	*Castlebay.*
a Wick	81	50	9, 12, 14	32	9th	46·3	34·9	40·8	+ 2·6	7	0·60	15	0	•	•	•	•	•	•	•	•	•	
b, Main- *p* Strathpeffer land.	200	53	10, 12	34	14th	50·9	36·4	43·9	+ 7·0	7	1·14	29	+ 10	0·5	- 0·5	7	•	•	•	•	•	•	Strathpeffer.
p Glencarron	500	50	10, 15	32	12, 14	46·1	34·7	40·6	+ 3·9	7	4·19	106	+ 47	•	•	•	•	•	•	•	•	•	
p Fort Augustus	68	51	12th	34	9, 13	47·9	37·1	42·7	+ 4·9	7	1·69	43	+ 11	0·2	- 0·3	3	•	•	•	•	•	•	Fort Augustus.
p Fort William	171	52	10th	34	14th	48·0	37·9	43·2	+ 3·7	7	2·06	52	- 3	•	•	•	•	•	•	•	•	•	
1. SCOTLAND, E.														0·3	—	4	3	23	37·7	+2·2	39·0	+0·3	Crathes.
p Gordon Castle	101	54	9th	32	9th	50·4	35·0	43·0	+ 4·7	4	0·54	14	+ 1	*1·2*	—	*18*	•	•	•	•	•	•	*Gordon Castle.*
a Nairn	82	52	9, 10, 12	33	9, 13, 14	47·9	35·7	42·0	+ 4·6	5	0·41	10	- 1	0·9	—	13	•	•	•	•	•	•	Nairn.
a Aberdeen	46	53	9, 10, 14	33	9th	48·3	35·1	42·0	+ 4·3	4	0·18	5	- 9	1·2	- 0·3	17	•	•	•	•	41·1	+0·9	Aberdeen.
a Balmoral	930	49	9th	28	9th	45·6	33·9	40·0	+ 5·7	4	0·27	7	- 11	•	•	•	4	25	•	•	•	•	Balmoral.
p Crieff	432	53	12th	33	14th	50·4	35·3	43·2	+ 6·0	4	0·10	3	- 21	1·6	—	23	•	•	•	•	•	•	Balruddery.
a Leith	18	52	10th	35	14, 15	49·1	38·6	44·1	+ 4·9	1	0·04	1	- 8	•	•	•	•	•	•	•	•	•	
a West Linton	769	47	9, 10, 12	30	12, 14	45·1	34·0	39·8	+ 5·0	6	0·57	14	—	*1·3*	—	*18*	5	23	•	•	•	•	*West Linton.*
p Marchmont	498	51	10th	30	14th	48·4	33·7	41·3	+ 4·7	0	0·00	0	- 13	1·4	+ 0·1	20	4	24	•	•	•	•	Marchmont.
a Edinburgh	*441*	*50*	*11th*	*33*	*14th*	*47·9*	*37·6*	*43·0*	—	*2*	*0·04*	*1*	—	1·3	—	18	1	29	•	•	•	•	Edinburgh.
6. *a*, SCOTLAND, W.																							
a Poltalloch	132	49	9, 10, 14	35	14th	47·3	39·1	43·4	+ 4·1	6	1·59	40	+ 12	•	•	•	•	•	•	•	•	•	
p Glasgow Observatory	180	51	10, 11	36	14th	48·7	39·9	44·5	+ 5·9	6	0·32	8	- 11	1·0	+ 0·4	14	2	29	•	•	•	•	Glasgow.
p Rothesay	170	50	10, 11	35	13, 14	48·0	38·7	43·5	+ 3·8	7	0·94	24	- 1	*0·7*	—	*10*	1	26	42·3	•	44·0	+1·5	*Rothesay.*
a Kilmarnock	90	51	10th	32	14th	47·3	38·6	43·1	+ 3·2	7	0·46	12	—	*0·9*	—	*13*	•	•	•	•	•	•	*Kilmarnock.*
a Colmonell	170	50	10, 12	35	14th	47·9	40·3	44·3	+ 4·2	6	0·32	8	- 18	•	•	•	1	30	•	•	•	•	
a Dumfries	160	51	10, 11, 15	32	14th	49·0	38·1	43 8	+ 5·4	6	0·16	4	- 16	*0·9*	—	*12*	2	26	41·1	•	42·0	•	*Dumfries.*
Eskdalemuir	*739*	*48*	*9, 10, 15*	*26*	*12th*	*46·0*	*33·9*	*40·2*	—	*6*	*0·71*	*18*	—	*1·1*	—	*16*	•	•	•	•	•	•	*Eskdalemuir.*
p Cally, Gatehouse	120	50	10, 15	32	14th	47·9	39·6	43·9	+ 5·8	6	0·42	11	- 15	•	•	•	•	•	•	•	•	•	
b. I. OF MAN. *p* Douglas	277	51	10th	38	14th	49·0	41·9	45·6	+ 4·8	5	0·34	9	- 12	1·8	+ 0·3	24	0	35	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	53	10th	30	9th	48·6	35·9	42·5	+ 4·3	3	0·07	2	- 12	1·6	—	22	3	26	39·1	+2·4	41·6	+1·9	Cockle Park.
a Tynemouth	71	51	10, 12	32	14th	48·7	36·9	43·0	+ 4·1	3	0·24	6	- 4	•	•	•	•	•	•	•	•	•	*Tynemouth.*
p Durham	336	51	10, 11	30	12th	49·3	35·3	42·6	+ 5·5	2	0·10	3	- 7	1·4	0·0	19	3	24	•	•	•	•	Durham.
a, North .. *p* Rounton	249	52	11th	27	14th	49 6	34·7	42·5	+ 5·3	2	0·03	1	- 9	•	•	•	5	22	39·6	•	•	•	Rounton.
a West Witton	*605*	*49*	*10, 12*	*30*	*12th*	*46·4*	*36·0*	*41·4*	—	*6*	*0·38*	*10*	—	•	•	•	4	24	40·4	•	41·0	•	*West Witton.*
p Scarborough	100	52	11th	34	9, 14	48·1	37·6	43·1	+ 4·6	3	0·26	7	- 5	1·2	—	16	•	•	•	•	42·0†	•	Scarborough.
p York	56	52	10th	31	9th	49·6	35·1	42·6	+ 4·6	2	0·20	5	- 4	1·0	+ 0·1	14	•	•	41·6	+3·1	44·0	+2·0	York.
a Spurn Head	26	50	10th	35	12, 14, 15	47·0	37·1	42·3	+ 3 6	4	0·32	8	0	*1·0*	—	*13*	•	•	•	•	•	•	*Spurn Head.*
b, South .. *a* Lincoln	58	52	10, 11, 15	32	9, 14	49·7	36·5	43·4	+ 6·3	1	0·03	1	- 9	•	•	•	•	•	40·7	+4·0	44·1	+2·1	Lincoln.
a Fulbeck	180	51	10, 11, 15	28	14th	48·9	34·4	41·9	+ 4·7	2	0·12	3	- 7	1·7	—	22	5	27	41·3	+2·4	44·9	+4·0	Rauceby.
														1·8	—	24	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																							
p Cromer	198	54	13th	31	14th	49·3	?37·4	43·6	+ 6·5	3	0·28	7	—	1·5	—	20	•	•	•	•	•	•	Cromer.
p Little Massingham	280	49	10, 11, 15	31	12, 14, 15	45·9	34·9	40·6	+ 3·5	4	0·13	3	- 9	1·5	0·0	19	4	24	•	•	•	•	Lit. Massingham.
a, North .. *a* Yarmouth	13	52	10th	32	12th	47·3	35·3	41·5	+ 3·7	4	0·21	5	- 5	2·8	—	36	•	•	42·1	+3·9	46·1	+2·9	Yarmouth.
a Norwich	93	51	10th	30	12th	47·9	35·3	41·9	+ 4·4	5	0·23	6	—	*2·3*	—	*30*	4	24	40·6	•	•	•	*Norwich.*
a Geldeston	37	54	10th	31	12th	49·0	35·1	42·3	+ 4·1	4	0·13	3	- 6	2·3	+ 0·6	30	•	•	•	•	•	•	Geldeston.
p Cambridge	41	53	10, 11	28	9th	48·4	34 1	41·5	+ 3·8	3	0·07	2	- 6	1·9	+ 0·4	25	3	23	41·8	+3·6	45·4	+2·5	Cambridge.
b, South .. *a* Clacton-on-Sea	54	51	10, 11	32	12th	47·1	35·1	41·3	+ 3·0	2	0·03	2	—	2·7	—	34	2	28	41·6	+1·6	45·8	+0·9	Clacton.
a Rothamsted	424	51	11th	31	9, 14	47·1	36·9	42·2	+ 4·8	4	0·15	4	- 8	1·8	+ 0·3	23	3	24	41·8	•	•	•	Rothamsted.
p Tottenham	51	53	11th	34	14th	49·1	39·1	44·3	+ 5·5	2	0·08	2	—	1·4	—	18	0	31	•	•	46·6	+2·2	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate	479	48	10–12	30	14th	46·1	35·9	41·2	+ 4·1	5	0·18	5	- 8	1·5	—	20	3	28	40·6	+1·9	42·1	+1·5	Harrogate.
p Buxton	*987*	*47*	*11-13*	*29*	*14th*	*44·9*	*36·3*	*40·8*	+ *5·3*	*5*	*0·43*	*11*	- *17*	*0·7*	•	*9*	4	21	40·5	+2·2	42·1	- 0·7	*Buxton.*
a Bawtry	65	51	10–12, 15	30	9th	49·0	33·7	41·7	+ 4·0	1	0·16	4	- 5	1·7	—	22	3	29	41·3	+3·4	43·3	+1·2	Sheffield.
a Nottingham	82	52	10, 11	30	15th	49·3	35·9	42·9	+ 5·1	1	0·04	1	- 10	1·2	+ 0·1	16	4	21	40·7	•	43·2	•	Worksop.
b, East .. *p* Birmingham, Edgbsn.	535	51	10th	34	14th	47·9	39·6	43·9	+ 6·1	3	0·11	3	- 9	1·1	—	15	4	25	40·3	+3·4	42·9	+2·4	Nottingham.
a Raunds	203	53	10, 11	28	9, 14	47·4	38·1	40·5	+ 3·3	3	0·09	2	—	1·2	—	16	1	26	43·2	+3·4	45·8	+1·2	Birmingham.
p Oxford	208	52	11th	32	14th	49·1	39·4	44·4	+ 5·6	2	0·06	2	- 8	*1·8*	—	*23*	6	21	43·0	•	46·0	•	*Raunds.*
														1·6	+ 0·1	20	1	25	•	•	•	•	Oxford.
a Cheadle	646	49	10, 11	30	14th	46·6	37·1	42·0	+ 5·3	5	0·20	5	- 9	•	•	•	2	26	•	•	•	•	Cheadle.
p Shrewsbury	191	54	10th	34	14th	51·3	41·7	46·7	+ 8·1	1	0·03	1	—	•	•	•	1	27	•	•	•	•	Shrewsbury.
c, West .. *a* Hereford§	291	51	9, 10, 15	32	14th	50·0	38·7	44·6	+ 6·4	2	0·07	2	- 11	*1·6*	—	*21*	2	24	42·4	—	44·2	•	*Malvern.*§
a Cirencester	446													•	•	•	•	•	•	•	•	•	Cirencester.
a Bath	66	53	9th	31	14th	50·6	40·6	45·8	+ 6·2	2	0·04	1	- 13	1·2	—	15	•	•	44·4	+3·9	46·4	+1·1	Bath.
5. ENGLAND, S.E.														1·8	—	23	3	27	43·2	+3·9	46·7	+2·0	Worthing.
a Marlborough	424	50	9, 11	34	14th	48·1	?38·3	43·4	+ 5·8	4	0·16	4	- 10	1 4	+ 0·1	18	2	?18	43·4	•	45·8	•	Marlborough.
a Margate	53	54	10th	35	12th	49·3	38·9	44·3	+ 4·9	1	0·05	1	- 9	1·9	+ 0·4	24	0	32	43·4	+3·7	46·2	+3·3	Margate.
a Wisley, Surrey	150	52	11th	31	9, 14	48·4	36·3	42·6	+ 3·3	2	0·03	1	—	1·5	—	19	4	18	42·6	+3·2	45·8	+2·6	Wisley.
p Salisbury (Wilton)	180	53	10, 11	31	14th	50·1	39·7	45·1	+ 7·3	5	0·16	4	—	•	•	•	1	26	44·1	•	•	•	Salisbury.
a Tunbridge Wells	354	53	10th	30	9, 14	48·1	34·3	41·5	+ 3·8	2	0·08	2	- 13	1·7	+ 0·2	21	3	23	42·6	+4·4	46·0	•	Tunbridge Wells.
a Dungeness	21	54	11th	31	14, 15	47·9	34·6	41·5	+ 1·9	3	0·24	6	- 5	•	•	•	•	•	•	•	•	•	Littlestone.
p Hastings	178	53	11th	34	14th	48·3	37·9	43·3	+ 3·7	5	0·17	4	- 10	2·9	+ 1·0	36	3	28	42·6	•	46·2	•	Hastings.
p Southampton	64	53	11th	32	14th	49·6	39·9	44·9	+ 5·0	3	0·04	1	- 14	1·4	- 0·2	18	3	24	•	•	•	•	Southampton.
a Ventnor	59	52	10, 11	35	14th	49·6	41·6	45·8	+ 3·7	2	0·09	2	- 12	1·6	- 0·2	20	•	•	•	•	•	•	Ventnor.
LONDON. *p* Kew	18	53	11th	33	14th	48·6	38·1	43·6	+ 4·7	2	0·06	2	- 8	?1·6	+ 0·3	20	3	25	42·1	+3·2	45·9	+1·8	Kew.
a Westminster	*27*	*54*	*12th*	*32*	*14th*	*49·8*	*37·1*	*43·7*	+ *4·7*	*2*	*0·09*	*2*	- *8*	*1·1*	+ *0·6*	*14*	3	27	•	•	•	•	*Westminster.*
a Greenwich	*155*	*53*	*11th*	*31*	*9th*	*48·9*	*36·6*	*43·0*	+ *3·8*	*3*	*0·07*	*2*	- *7*	*0·8*	- *0·4*	*10*	4	25	•	•	•	•	*Greenwich.*
a Hampstead	*450*	*51*	*11th*	*29*	*14th*	*46·7*	*36·3*	*41·7*	—	*2*	*0·09*	*2*	—	*1·6*	—	*20*	4	19	•	•	•	•	*Hampstead.*
a Camden Square	*110*	*53*	*11th*	*31*	*9th*	*48·9*	*36·4*	*43·9*	—	*2*	*0·10*	*3*	—	*1·2*	—	*15*	2	27	•	•	•	•	*Camden Square.*
7. *a*, ENGLAND, N.W.														0·7	—	9	•	•	•	•	•	•	Hoylake.
p Aspatria	250	48	10-12	32	14th	48·9	36·1	41·7	+ 3·6	6	0·52	13	- 4	0·9	—	12	1	25	42·2	—	43·9	—	Aspatria.
p Newton Rigg	559	50	10th	28	14th	47·0	35·7	41·6	+ 4·7	6	0·34	9	- 10	1·0	- 0·2	14	5	19	40·9	+2·5	41·9	+0·9	Newton Rigg.
p Stonyhurst	375	49	12, 13	29	14th	47·4	38·0	42·9	+ 4·7	5	0·78	20	- 4	0·8	- 0·2	11	1	25	•	•	•	•	Stonyhurst.
p Blackpool	66	50	13th	36	14th	48·4	41·9	45·3	+ 6·4	4	0·28	7	- 9	0·9	- 0·2	12	1	26	44·0	—	45·4	—	Blackpool.
a Southport	*37*	*49*	*10, 12, 15*	*37*	*14th*	*47·4*	*42·1*	*44·9*	+ *6·0*	*3*	*0·18*	*5*	- *10*	*0·8*	—	*11*	1	28	42·3	+4·8	42·6	+1·7	*Southport.*
a Liverpool (Bidston)	188	52	10th	39	14th	49·1	42·3	45·8	+ 5·8	4	0·13	3	- 10	*1·0*	—	*13*	•	•	•	•	•	•	*Liverpool.*
a Hawarden Bridge	22	54	12th	39	14, 15	51·3	42·7	47·2	+ 6·8	4	0·14	4	- 6	*0·4*	—	*5*	1	30	42·6	+4·5	44·6	+1·5	*Manchester (City)*
p Manchester (Whit. Pk.)	125	52	10th	31	14th	49·6	40·3	45·1	+ 6·0	4	0·32	8	- 6	*0·3*	- *0·2*	*4*	•	•	•	•	•	•	" *(Whit. Park)*
b NORTH WALES.																							
p Llandudno	71	51	10, 11	41	14th	49·7	43·9	46·9	+ 5·4	5	0·14	4	- 11	0·3	- 1·1	4	•	•	•	•	•	•	Llandudno.
a Holyhead	15	51	9–12, 15	39	13th	49·9	43·6	46·9	+ 4·8	4	0·24	6	- 12	*0·7*	—	*9*	•	•	•	•	•	•	*Holyhead.*
p Bettws-y-Coed	148	53	11th	36	13, 14	51·0	42·0	46·7	+ 5·7	6	*?0·30*	8	—	0·2	—	3	•	•	44·7	+4 9	46·0	+2·2	Bettws-y-Coed.
														0·2	—	3	•	•	•	•	•	•	Aberdovey.

† At 3 ft.

§ The temperature on the grass refers to Hereford.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date,	Lowest.	Date.	Mean for the Week.			Difference from Aver'ge	No. of Rain-Days.	Rainfall in the week.		Difference from Average.	Daily Mean	Difference from Average.	Percentage of possible duration.	Grass Min.		Earth 1 ft		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts.	Lowest Reading.	Mean.	Difference from average.	Mean.	Difference from average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES.														0·2	—	3	*	*	*	*	*	*	
a Llangammarch Wells	550	50	11, 12	30	14th	47·7	39·4	43·7	+ 6·4	6	0·35	9	—	0·5	—	8	2	23	43·6	+3·6	46·0	+1·2	Aberystwyth.
a Pembroke	149	50	10, 11	40	14th	48·9	45·1	47·1	+ 4·3	3	0·07	2	- 18	0·6	- 1·0	8	*	*	*	*	*	*	Llangammarch.
p Cardiff	202	52	11th	35	14th	49·7	42·0	46·0	+ 6·4	3	0·15	4	- 18	*1·1*	—	*14*	1	27	44·4	+5·3	46·0	+2·1	Pembroke.
																							Cardiff.
b, ENGLAND, S.W.																							
a Clifton	229	52	11th	33	14th	49·9	43·3	46·7	+ 6·7	2	0·07	2	- 15	*1·1*	—	*14*	0	33	*	*	*	*	*Clifton.*
a Shaftesbury	722	50	10th	31	14th	46·7	38·1	42·6	+ 4·8	4	0·20	5	- 10	*	*	*	*	*	43·6	*	45·9	*	Shaftesbury.
a Arlington	613	49	10th	37	14, 15	47·0	41·3	44·3	+ 4·8	3	0·38	9	- 19	*	*	*	*	*	*	*	*	*	Arlington.
a Newquay	*190*	*51*	*11th*	*43*	*14th*	*49·3*	*45·3*	*47·4*	+ *3·5*	*4*	*0·15*	*4*	- *14*	0·5	- 1·1	6	0	40	47·7	*	48·3	*	Newquay.
a Cullompton	202	52	10, 11	32	14th	49·6	41·7	45·8	+ 6·0	4	0·26	7	- 12	0·6	- 0·8	8	1	24	45·8	*	*	*	Cullompton.
a Portland Bill	19	53	9, 11	40	14, 15	50·6	45·0	47·9	+ 5·8	1	0·04	1	—	*1·6*	—	*20*	*	*	*	*	*	*	*Weymouth.*
p Plymouth	116	53	10, 11	39	14th	50·9	45·8	48·4	+ 6·1	3	0·06	2	- 18	0·5	- 1·1	6	*	*	46·3	+4·3	48·1	*	Plymouth.
a Falmouth	167	52	11th	40	14, 15	49·6	44·0	46·9	+ 3·2	3	0·13	3	- 23	0·6	- 1·2	7	0	33	47·5	*	48·4	*	Falmouth.
9. IRELAND. N.																							
a Malin Head	208	50	9, 10	38	13th	48·3	42·4	45·5	+ 4·2	7	0·31	8	- 8	*0·1*	—	*1*	*	*	*	*	*	*	*Malin Head.*
a, West .. *a* Blacksod Point ..	?	49	10–12, 15	40	13, 14	48·6	43·3	46·1	+ 3·3	7	0·33	8	- 21	*	*	*	*	*	*	*	*	*	*
p Markree Castle ..	122	53	12th	36	13, 14	50·9	42·9	47·1	+ 7·5	6	0·19	5	- 17	0·1	- 1·1	1	0	33	45·1	*	45·6	*	Markree Castle.
a Birr Castle	175	52	11th	37	14th	49·4	42·1	45·9	+ 6·2	5	0·20	5	- 12	*0·4*	*1·2*	*5*	*	*	*	*	*	*	*Birr Castle.*
p Armagh	196	52	10th	36	14th	49·6	42·4	46·1	+ 6·5	4	0·30	8	- 7	0·7	- 0·7	9	0	33	43·9	+3·6	45·0	+1·1	Armagh.
b, East .. *a* Donaghadee ..	101	52	10th	36	15th	49·4	41·6	45·7	+ 5·1	2	0·10	3	- 12	*	*	*	*	*	*	*	*	*	*
														*	*	*	1	30	45·6	+4·8	46·2	+1·9	Trinity Coll.
10. IRELAND, S.														0·6	- 1·2	8	1	29	*	*	*	*	Phœnix Park.
p Dublin, City	47	52	11, 12	37	14th	50·1	44·1	47·2	+ 5·6	2	0·02	1	- 11	*	*	*	0	34	*	*	*	*	Dublin City.
a, East .. *a* Kilkenny	212	52	10–12	37	14th	49·9	42·9	46·5	+ 6·2	6	0·08	2	- 18	*	*	*	*	*	*	*	*	*	*
a Waterford	20	53	10, 12	38	14th	50·6	43·6	47·2	+ 5·8	1	0·04	1	- 22	*	*	*	*	*	*	*	*	*	*
a Seskin, Carrick-on-Suir	*541*	*51*	*10, 12*	*36*	*13, 14*	*49·1*	*41·9*	*45·6*	—	*6*	*0·10*	*3*	—	*1·3*	—	*17*	0	32	*	*	*	*	*Seskin.*
a Birr Castle	175	52	11th	37	14th	49·4	42·1	45·9	+ 6·2	5	0·20	5	- 12	0·4	- 1·2	5	*	*	*	*	*	*	Birr Castle.
a Foynes	50	52	12th	39	14th	49·9	44·9	47·5	+ 5·3	6	0·33	8	- 14	*	*	*	*	*	*	*	*	*	*
a Cahir	199	53	12th	38	14th	49·6	42·1	46·0	+ 4·6	6	0·11	3	—	*	*	*	*	*	*	*	*	*	*
b, West .. *a* Killarney ..	174	54	12th	38	14th	50·5	45·0	47·9	+ 5·4	5	0·13	3	- 34	*	*	*	*	*	*	*	*	*	*
a Valencia	30	52	12th	38	14th	50·0	45·6	47·9	+ 3·1	5	0·24	6	- 27	0·1	- 1·7	1	*	*	*	*	*	*	Valencia.
a Roche's Point ..	32	53	10, 11	41	14th	50·9	44·7	47·9	+ 4·3	3	0·10	3	- 24	*	*	*	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	56	15th	43	14th	51·1	45·6	48·5	+ 2·4	5	0·20	5	- 14	1·8	0·0	23	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	53	11th	39	15th	50·6	45·0	47·9	+ 5·1	2	0·16	4	- 15	0·9	- 1·2	11	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	52	9, 11	40	14th	50·0	43·3	46·8	+ 3·1	3	0·27	7	- 13	0·9	- 0·7	11	0	33	47·1	+3·2	49·1	+2·0	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, January 15th, 1916.

DISTRICT AND STATION.	Height.			Distribution of Wind.								Extreme Velocities.			
	Above Mean Sea Level.	Above Ground.	Above Building.	Gales, force 8 or more.		High Winds, forces 6 and 7.		Fresh or Moderate Winds, forces 4 and 5.	Light Winds, forces 2 and 3.	Calms and Light Airs, forces 0 and 1.	No Record.	Highest Hourly Wind.			Highest Gust with Date and Time.
				Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Velocity.	Date and Hour.		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.		m/s. d. h. m.
1. SCOTLAND, E.															
Dyce	220	75	‡15**	—	—	13th	7	40	97	24	0	NW.	13	13th 9h.	34 13th 10 . 0
Aberdeen*	153	105	37	12, 13, 15	13	10 to 13, 15	23	70	53	6	0	NW. by W.	22	13th 10h	34 13th 10 . 0
			52 ‖												
Edinburgh	485	39	31	—	—	10, 12 to 15	54	63	21	0	30	W. by S.	17	15th 6h.	26 15th 4 . 4
6. SCOTLAND, W.															
Eskdalemuir	850	50	22	10, 12, 13, 15	12	9 to 15	51	54	35	16	0	WNW.	22	13th 1h.	32 12th 23 . 32
Paisley	188	81	52	—	—	12, 13, 15	14	77	60	17	0	NW. by N.	15	12th 24h.	32 13th 1 . 9
2. ENGLAND, N.E.															
Alnwick Castle	340	70	17	—	—	13th	7	54	67	40	0	NNW.	12	13th 16h.	28 13th 11 . 37
South Shields	72	61	12	—	—	9 to 15	36	64	54	14	0	NNW.	17	13th 14h.	28 12th 21 . 20
Spurn Head	66	40	‡	13th	12	9 to 15	57	73	26	0	0	—	20	13rd 14h.	28 13th 15 . 41
3. ENGLAND, E.															
Gorleston	52	42	‡	—	—	13, 14	20	89	59	0	0	—	15	13th 15h.	23 13th 16 . 42
Shoeburyness	103	90	‡	—	—	13, 15	22	95	51	0	0	—	14	13th 5h.	23 13th 4 . 29
4. MIDLAND COUNTIES.															
Benson	270	84	‡	—	—	13th	6	68	73	21	0	NW.	13	13th 14h.	22 13th 12 . 28
5. ENGLAND, S.E.															
Dover	271	40	‡	13th	1	12 to 14	22	80	43	11	11	—	17	13th 14h.	25 13th 13 . 54
Warlingham	642	33	‡	—	—	—	—	49	94	34	0	—	8	13th 14h.	18 13th 12 . 46
Brighton	261	53	6	—	—	—	—	—	—	—	—	—	—	— —	— — —
Kew	82	65	6	—	—	—	—	57	83	21	7	NW.	10	13th 13h.	21 13th 13 . 41
			22 ‖												
South Kensington ..	123	92	30	—	—	—	—	3	117	48	0	N. by W.	6	13th 14h.	14 13th 14 . 28
7. ENGLAND, N.W.															
Carnforth	246	56	23	—	—	10 to 12, 14	9	88	36	35	0	W. by S.	13	11th 3h.	20 12th 21 . 56
Southport	80	62	48	11 to 13	26	9 to 15	80	41	20	1	0	NW.	22	13th 11h.	31 13th 7 . 48
Holyhead*	60	40	‡	12, 13	7	9 to 15	66	83	12	0	0	NW.	20	13th 10h.	26 13th 10 . 5
8. ENGLAND, S.W.															
Pendennis Castle§ ..	256	65	24	—	—	11 to 13	9	99	60	0	0	NW.	13	12th 24h.	22 12th 24 . 23
Plymouth	185	88	2	—	—	—	—	45	111	12	0	—	9	13th 13h.	19 13th 13 . 15
10. IRELAND, S.															
Quilty	100	40	‡	—	—	10 to 13	32	98	19	0	19	—	13	12th 19h.	21 12th 18 . 50
Weaver Pt.	160	30	‡	—	—	—	—	70	95	3	0	—	11	12th 21h.	19 13th 22 . 29
11. ENGLISH CHANNEL.															
Scilly*	150	32	‡	—	—	10 to 13	43	91	32	2	0	W.	16	12th 22h.	21 12th 22 . 25
		19													

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.

‖ Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew), and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the averages for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the difference of the mean temperature from the average are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

SECOND WEEK—January 9th to January 15th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Difference from Av. (25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Difference from Av. (25 Yrs.)	Below 42°	Difference from Av. (25 Yrs.)	Number of Rain-Days.	Difference from Average. (25 Years.)	Total Fall.	Difference from Average. (25 Years.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	53	32	81·4	75·4	78·6	+ 2·3	15	+ 9	16	− 20	7	+ 2	2·02	51	+ 22	0·5	−0·3	8	1011
Eastern.																			
1. SCOTLAND, EAST ...	54	28	82·0	74·8	78·5	+ 2·8	17	+ 12	30	− 13	4	+ 1	0·26	7	− 7	1·1	0·0	16	1014
2. ENGLAND, N.E.	53	27	82·3	75·2	78·9	+ 2·5	31	+ 24	17	− 18	2	− 2	0·15	4	− 8	1·5	+0·4	20	1018
3. ENGLAND, EAST ...	54	28	81·8	75·2	78·6	+ 2·7	26	+ 19	17	− 24	3	− 1	0·15	4	− 6	2·0	+0·6	26	1022
4. MIDLAND COUNTIES ...	54	28	82·3	76·1	79·3	+ 3·3	28	+ 19	12	− 29	3	− 1	0·10	3	− 9	1·4	+0·1	18	1022
5. ENGLAND, S.E.	54	30	82·3	76·3	79·4	+ 2·5	28	+ 17	11	− 21	3	0	0·11	3	− 10	1·8	+0·3	22	1025
Western.																			
6. SCOTLAND, WEST ...	51	32	81·9	77·2	79·7	+ 2·7	25	+ 17	7	− 22	6	+ 2	0·57	15	− 10	1·4	+0·3	19	1018
7. ENGLAND, N.W.	54	28	82·4	77·8	80·2	+ 2·9	26	+ 17	4	− 25	5	+ 1	0 32	8	− 8	0·6	−0·5	8	1023
8. ENGLAND, S.W.	53	30	82·5	78·9	80·7	+ 2·7	27	+ 11	0	− 23	3	0	0·17	5	− 15	0·5	−1·0	6	1027
9. IRELAND, NORTH ...	53	36	82·7	78·8	80·8	+ 3·1	29	+ 17	0	− 25	5	+ 1	0·24	6	− 13	0·4	−0·9	5	1022
10. IRELAND, SOUTH ...	54	37	83·1	79·6	81·4	+ 3·8	36	+ 17	0	− 19	4	0	0·14	4	− 19	0·4	−1·2	5	1029
11. ENGLISH CHANNEL ...	56	39	83·3	80·0	81·7	+ 1·9	40	+ 16	0	− 9	3	− 1	0·21	5	− 13	1·2	−0·8	14	1030
THE SEASON (**Winter**).—Aggregates, &c., for the Period of 7 Weeks, November 28th, 1915, to January 15th, 1916.																			
0. SCOTLAND, NORTH ...	53	16	79·1	74·5	76·9	+ 0·1	43	− 15	191	− 29	44	+ 7	11·66	296	+ 69	0·6	−0·1	8	1001
Eastern.																			
1. SCOTLAND, EAST ...	56	8	79·2	73·8	76·6	+ 0·5	50	− 1	243	− 31	37	+10	7·09	180	+ 67	0·9	−0·1	13	1002
2. ENGLAND, N.E.	60	22	80·7	75·2	78·1	+ 1·2	107	+ 45	147	− 71	33	+ 6	5·79	148	+ 62	1·3	+0·1	17	1004
3. ENGLAND, EAST ...	58	21	81·7	76·2	79·1	+ 2·5	149	+ 80	109	−142	35	+ 8	5·45	138	+ 59	1·2	−0·2	16	1008
4. MIDLAND COUNTIES ...	59	18	81·6	75·4	78·7	+ 2·1	145	+ 70	135	−121	36	+ 9	6·28	161	+ 68	1·1	−0·1	14	1007
5. ENGLAND, S.E.	63	17	82·5	77·3	79·9	+ 2·2	204	+ 97	66	−117	35	+ 9	8·41	215	+114	1·2	−0·3	15	1010
Western.																			
6. SCOTLAND, WEST ...	54	21	80·1	75·5	77·9	+ 0·3	78	− 3	136	− 37	41	+ 9	9·68	247	+ 39	1·1	+0·1	15	1003
7. ENGLAND, N.W.	58	23	81·1	76·3	78·8	+ 1·2	116	+ 30	110	− 63	39	+10	8·17	208	+ 76	0·9	−0·2	12	1005
8. ENGLAND, S.W.	58	22	82·5	77·9	80·3	+ 1·7	207	+ 70	48	− 82	39	+ 9	10·98	280	+109	1·0	−0·5	13	1009
9. IRELAND, NORTH ...	56	19	81·3	76·3	78·9	+ 0·9	121	+ 24	114	− 39	42	+ 8	7·29	184	+ 35	1·1	−0·2	15	1002
10. IRELAND, SOUTH ...	58	20	82·4	77·0	79·8	+ 0·8	197	+ 41	73	− 44	39	+ 6	7·76	196	+ 18	1·3	−0·2	17	1006
11. ENGLISH CHANNEL ...	57	30	83·9	79·9	82·0	+ 1·4	314	+ 95	7	− 32	38	+ 4	9·38	239	+ 88	1·4	−0·5	18	1011
THE YEAR.—Aggregates, &c., for the Period of 2 Weeks, January 2nd to January 15th, 1916.																			
0. SCOTLAND, NORTH ...	53	32	81·4	76·6	79·1	+ 2·8	35	+ 23	20	− 53	14	+ 4	4·88	124	+ 67	0·8	+0·1	12	1006
Eastern.																			
1. SCOTLAND, EAST ...	56	28	82·1	76·0	79·1	+ 3·5	43	+ 33	38	− 49	9	+ 2	1·25	32	+ 3	1·5	+0·5	22	1009
2. ENGLAND, N.E.	60	27	83·1	76·8	80·1	+ 3·8	66	+ 53	18	− 54	5	− 3	0·33	9	− 14	1·6	+0·5	22	1015
3. ENGLAND, EAST ...	56	28	82·9	77·0	80·0	+ 4·1	62	+ 47	17	− 66	8	0	0·98	25	+ 4	1 6	+0·2	21	1020
4. MIDLAND COUNTIES ...	57	28	83·2	77·4	80·4	+ 4·4	64	+ 46	12	− 71	8	0	0·69	18	− 8	1·4	+0·2	18	1020
5. ENGLAND, S.E.	57	30	83·1	78·0	80·7	+ 3·8	70	+ 47	11	− 53	8	+ 1	0·68	18	− 9	1·5	+0·1	19	1023
Western.																			
6. SCOTLAND, WEST ...	54	32	82·3	77·8	80·2	+ 3·3	52	+ 36	8	− 52	12	+ 3	1·95	50	− 3	1·4	+0·4	19	1014
7. ENGLAND N.W.	58	28	83·1	78·6	80·9	+ 3·9	65	+ 46	4	− 55	11	+ 3	1·23	31	− 2	0·9	−0·1	12	1019
8. ENGLAND, S.W.	57	30	83·1	79·6	81·4	+ 3·4	70	+ 38	0	− 46	9	+ 1	1·34	35	− 8	1·1	−0·4	14	1024
9. IRELAND NORTH ...	56	36	83·2	78·5	80·9	+ 3·2	62	+ 38	2	− 48	12	+ 3	1·01	26	− 14	0·9	−0·3	13	1017
10. IRELAND, SOUTH ...	58	35	83·9	79·3	81·7	+ 3·1	78	+ 39	0	− 38	11	+ 2	0·75	19	− 31	0·9	−0·6	11	1024
11. ENGLISH CHANNEL ...	56	39	83 9	80·7	82·4	+ 2·5	96	+ 46	0	− 18	8	− 1	0·55	14	− 24	1·6	−0·3	19	1027
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	m.m.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., January 20th, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 9

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 3. SUNDAY, JANUARY 16TH TO SATURDAY, JANUARY 22ND, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE THIRD WEEK OF 1916.

The abnormal mildness of the season was maintained with but little variation during this week. As a general rule the day temperatures in nearly all districts were from 283° A. (50° F.) upwards, maxima above 286° A. (55° F.) being very numerous from the 19th to the 22nd, readings as high as 288° A. (58° and 59° F.) being registered at Bawtry, Tynemouth, Llandudno and Shankill. Similarly at night shade readings below 277° A. (40° F.) were uncommon, large numbers of the minima being above 280° A. (45° F.), the mildest night being that of the 21st–22nd, when many stations in the southern counties did not pass below 283° A. (50° and 51° F.). There was an almost entire absence of frost in the shade, but on the 18th Balmoral, and on the 22nd Glencarron registered 272° A. (30° F.). For the whole week, therefore, the mean temperature was everywhere well above the average, the excess ranging from 2·3° A. (4·1° F.) in Scotland North to 4·6° A. (8·3° F.) in England East. Rain was frequent, five to seven days in most districts. In Scotland and England North-West it was considerably above the normal, but elsewhere there was no marked divergence. There were very few heavy falls, but on the 19th Lerwick measured 25 mm., Poltalloch 28 mm., Eskdalemuir 31 mm., and Fort William 37 mm. From the 19th to the 22nd slight sleet or snow fell at various northern stations. England East and South-East and the Channel returned a deficiency of sunshine, other districts an excess. The 18th, 20th and 22nd had from 5 to 6½ hours of sunshine in many places. Thunderstorms occurred in various parts of the kingdom daily from the 19th to the 22nd, severe at Cardiff on the 20th, and at Over Court (Bristol) next day. Hail fell in many localities on the same four days. Off the north-east of Scotland the sea water was about 1° A. (1°·3 F.) below the normal; on other coasts it was about 1° A. (2° F.) in excess.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.*		ENGLAND, E.		NORTH WALES.		ENGLAND, S.W.		IRELAND, S.W.	
	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.
		m/s		m/s		m/s		m/s		m/s
South	7	7·0	5	3·4	7	6·1	6	6·6	7	6·3
North	0	0·0	2	0·8	0	0·0	1	2·8	0	0·0
West	6	7·2	7	4·0	7	6·0	6	7·0	4	5·6
East	1	2·9	0	0·0	0	0·0	1	2·1	2	2·4
Calm	0	—	0	—	0	—	0	—	0	—

* One of the Anemometer Cups was blown away on the 20th and the instrument had not been repaired at the end of the week. The records obtained have been used for the table.

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH AVERAGE.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year ...	Warmth ...	Unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Unusual	Very unusual
	Rainfall ...	Heavy	Heavy	Moderate	Heavy	Moderate	Moderate	Heavy	Heavy	Moderate	Moderate	Moderate	Moderate
	Sunshine ...	Moderate	Abundant	Abundant	Moderate	Moderate	Scanty	Abundant	Abundant	Moderate	Abundant	Moderate	Scanty

II.—THE WINTER SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

WINTER. 8 weeks from Nov. 28th, 1915.	Warmth ...	3, 2, 3	4, 1, 3	4, 3, 1	5, 3, 0	5, 2, 1	5, 3, 0	4, 2, 2	4, 3, 1	5, 2, 1	4, 2, 2	4, 3, 1	6, 1, 1
	Rainfall ...	4, 4, 0	5, 2, 1	4, 2, 2	7, 0, 1	4, 3, 1	5, 2, 1	5, 2, 1	6, 1, 1	6, 1, 1	4, 3, 1	2, 3, 3	5, 1, 2
	Sunshine ...	1, 6, 1	2, 4, 2	3, 4, 1	0, 6, 2	0, 6, 2	0, 5, 3	4, 3, 1	3, 4, 1	0, 4, 4	2, 4, 2	1, 4, 3	0, 2, 6

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1° A. = increment of $\frac{9}{5}$° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(7158—19.) Wt. 160—610. 450. 1/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880. GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Difference from Aver'ge	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.								Ground Frosts	Lowest Reading.	Mean	Difference from Average.	Mean.	Difference from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.	*31*									10.												
a, Islands .. *p Baltasound*	*31*																					*Baltasound.*
a Lerwick ..	54	47	18th	33	16th	45·4	37·0	41·4	+ 2·3	7	2·52	64	—	1·2	+ 0·3	18	*	*	*	*	*	*	Deerness.
a Stornoway	51	53	19th	37	21st	48·3	40·4	44·5	+ 5·4	7	2·28	58	+ 29	0·7	- 0·2	10	*	*	*	*	*	*	Stornoway
a Castlebay, Barra Isd.	*37*	*52*	*19th*	*38*	*20, 22*	*49·0*	*41·1*	*45·2*	+ *3·6*	7	*0·67*	*17*	—	*0·5*	—	*7*	*	*	*	*	*	*	*Castlebay*
a Wick	81	49	19, 21	33	16th	45·7	37·0	41·5	+ 3·3	6	0·60	15	0	*	*	*	*	*	*	*	*	*	
p Strathpeffer	200	53	21st	35	16, 20, 22	48·4	36·6	42·7	+ 5·9	5	1·10	28	+ 10	1·2	+ 0·1	17	*	*	*	*	*	*	Strathpeffer.
b, Main- *p* Glencarron	500	53	17th	30	22nd	47·6	35·7	41·9	+ 5·3	6	1·78	45	- 13	*	*	*	*	*	*	*	*	*	
land. *p* Fort Augustus ..	68	53	17th	36	20, 22	49·9	38·4	44·4	+ 6·7	6	2·22	56	+ 24	0·3	- 0·3	4	*	*	*	*	*	*	Fort Augustus.
p Fort William ..	171	53	17th	36	22nd	48·4	39·4	44·1	+ 4·7	7	3·10	79	+ 25	*	*	*	*	*	*	*	*	*	
1. SCOTLAND, E.														2·9	—	41	2	33	37·8	+2·6	39·1	+1·1	Crathes.
p Gordon Castle ..	101	57	19th	34	20th	50·0	37·7	44·1	+ 6·0	5	0·45	11	- 1	2·7	—	*38*	*	*	*	*	*	*	*Gordon Castle.*
a Nairn ..	82	54	19th	33	21st	48·0	36·6	42·5	+ 5·1	6	0·81	21	+ 10	1·7	—	24	*	*	*	*	*	*	Nairn.
a Aberdeen	46	55	19th	33	17th	47·9	38·6	43·4	+ 5·7	2	0·24	6	- 7	3·4	+ 1·8	48	*	*	*	*	*	*	Aberdeen.
a Balmoral	930	53	19th	30	18th	46·6	33·4	40·3	+ 6·1	4	1·07	27	+ 9	*	*	*	4	29	*	*	*	*	Balmoral.
p Crieff	432	52	19th	33	20, 22	47·1	37·0	42·3	+ 5·1	7	2·14	54	+ 31	1·5	—	21	*	*	*	*	*	*	Balrudderry.
a Leith	18	55	21st	36	21st	50·4	40·4	45·6	+ 6·5	5	1·18	30	+ 21	*	*	*	*	*	*	*	*	*	
a West Linton	769	51	20th	32	21st	47·1	36·0	41·8	+ 6·9	7	1·80	46	—	*1·1*	—	*15*	3	29	*	*	*	*	*West Linton.*
p Marchmont	498	51	20th	34	22nd	47·7	38·1	43·1	+ 6·5	5	1·03	26	+ 13	1·3	- 0·1	18	0	31	*	*	*	*	Marchmont.
a Edinburgh	*441*	*54*	*21st*	*33*	*20th*	*49·3*	*39·1*	*44·4*	—	*5*	*1·31*	*31*	—	1·3	—	18	0	32	*	*	*	*	Edinburgh.
6. *a*, SCOTLAND, W.														*	*	*	*	*	*	*	*	*	
a Poltalloch	132	51	19-21	37	20th	48·7	39·6	44·3	+ 5·2	7	2·07	53	+ 26	*	*	*	*	*	*	*	*	*	
p Glasgow Observatory	180	53	19th	36	20th	48·3	40·1	44·4	+ 5·9	6	1·51	38	+ 19	0·9	+ 0·2	12	0	33	*	*	*	*	Glasgow.
p Rothesay	170	52	19th	35	20th	47·6	39·1	43·5	+ 3·9	7	1·38	35	+ 10	*1·0*	—	*14*	0	31	42·1	*	44·0	+1·9	*Rothesay.*
a Kilmarnock	90	54	19th	35	20th	49·7	39·0	44·6	+ 4·9	7	1·40	36	—	*1·3*	—	*17*	*	*	*	*	*	*	*Kilmarnock.*
a Colmonell	170	54	21st	39	20th	50·3	41·4	46·0	+ 6·3	6	1·28	33	+ 8	*	*	*	0	33	*	*	*	*	
a Dumfries	160	53	21st	34	20th	48·7	40·3	44·7	+ 6·4	7	1·49	38	+ 19	*1·4*	—	*18*	0	32	42·0	*	42·1	*	*Dumfries.*
Eskdalemuir	*799*	*50*	*21st*	*33*	*21st*	*45·7*	*38·0*	*42·0*	—	*7*	*3·71*	*94*	—	*0·4*	—	*5*	*	*	*	*	*	*	*Eskdalemuir.*
p Cally, Gatehouse	120	50	19, 21	37	21st	47·4	40·0	43·9	+ 6·2	7	1·91	49	+ 23	*	*	*	*	*	*	*	*	*	
b, I. OF MAN. *p* Douglas	277	51	19, 21	38	20th	48·9	42·4	45·8	+ 5·1	6	1·18	30	+ 10	2·2	+ 0·6	28	0	36	*	*	*	*	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	56	21st	35	21st	51·1	38·6	45·1	+ 6·9	4	0·46	12	- 1	2·5	—	33	0	32	40·5	+4·1	41·6	+2·2	Cockle Park.
a Tynemouth	71	58	21st	38	21st	50·4	41·7	46·2	+ 7·4	4	0·24	6	- 3	*	*	*	*	*	*	*	*	*	*Tynemouth.*
p Durham ..	336	56	21st	?37	19th	49·3	?39·6	?44·6	?+ 7·5	5	0·22	6	- 3	2·6	+ 1·2	34	0	33	*	*	*	*	Durham.
a, North .. *p* Rounton ..	249	57	21st	38	19, 20	50·9	39·7	45·5	+ 8·5	4	0·11	3	- 7	*	*	*	0	31	41·0	*	*	*	Rounton.
a West Witton	*605*	*53*	*21st*	*37*	*21st*	*49·3*	*40·6*	*45·1*	—	*5*	*1·17*	*30*	—	*	*	*	0	33	41·3	*	41·2	*	*West Witton.*
p Scarborough	100	57	21st	38	19th	52·1	41·6	47·1	+ 8·7	2	0·09	2	- 9	1·9	—	25	*	*	*	*	42·0†	*	Scarborough
p York	58	56	19, 21	38	19th	52·0	41·7	47·1	+ 9·1	4	0·26	7	- 2	?1·7	+ 0·7	22	*	*	42·2	+4·2	43·9	+2·7	York.
a Spurn Head	26	54	21st	39	19, 20	48·9	41·4	45·3	+ 6·7	3	0·24	6	- 1	*0·8*	—	*10*	*	*	*	*	*	*	*Spurn Head.*
b, South .. *a* Lincoln	58	56	21st	39	19, 21	51·4	41·4	46·6	+ 9·4	3	0·16	4	- 5	*	*	*	*	*	42·1	+5·4	44·4	+3·1	Lincoln.
a Fulbeck	180	56	21st	38	17, 19	51·0	40·7	46·1	+ 8·7	3	0·16	4	- 6	1·4	—	18	1	29	42·5	+4·6	44·5	+1·6	Rauceby.
														1·8	—	23	*	*	*	*	*	*	Skegness.
3. ENGLAND, E.																							
p Cromer	196	55	21st	39	19, 21	51·3	41·4	46·6	+ 9·7	5	1·48	38	—	1·5	—	19	*	*	*	*	*	*	Cromer.
p Little Massingham	280	54	21, 22	37	20th	51·0	39·4	45·4	+ 8·7	5	0·48	12	+ 1	1·5	0·0	19	0	33	*	*	*	*	Lit. Massingham.
a, North .. *a* Yarmouth	13	55	21st	39	21st	50·9	41·3	46·3	+ 8·9	3	0·31	8	- 1	1·8	—	23	*	*	43·7	+6·6	45·7	+3·1	Yarmouth.
a Norwich	93	55	21st	39	21st	51·1	42·6	47·0	+ 9·8	4	0·31	8	—	*1·4*	—	*17*	0	35	42·2	*	*	*	*Norwich.*
a Geldeston	37	56	21st	39	21st	52·3	42·3	47·5	+ 9·8	6	0·27	7	- 2	1·6	- 0·1	20	*	*	*	*	*	*	Geldeston.
p Cambridge	41	55	21st	37	22nd	52·1	39·9	46·2	+ 8·7	3	0·18	5	- 3	1·6	0·0	20	1	30	42·7	+5·1	45·0	+2·6	Cambridge.
b, South .. *a* Clacton-on-Sea	54	53	22nd	39	16th	49·0	42·0	45·6	+ 7·5	5	0·33	8	—	1·1	—	14	0	37	42·9	+3·5	45·1	+1·0	Clacton.
a Rothamsted	424	54	21st	37	16th	50·1	40·4	45·4	+ 8·2	5	0·45	11	0	1·2	- 0·4	15	2	28	42·2	*	*	*	Rothamsted.
p Tottenham	51	55	22nd	38	16th	51·9	43·1	47·7	+ 9·0	3	0·29	7	—	0·9	—	11	0	34	*	*	46·0	+2·3	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate	479	55	21st	36	21st	49·6	39·7	44·9	+ 8·1	4	0·55	14	+ 1	1·6	—	21	0	36	41·6	+3·6	42·1	+1·9	Harrogate.
p Buxton	*987*	*56*	*21st*	*36*	*20th*	*48·6*	*33·3*	*44·1*	+ *8·8*	*6*	*0·81*	*21*	- *6*	*1·1*	*	*14*	0	33	40·9	+3·1	42·1	-0·2	*Buxton.*
														1·8	—	23	0	32	41·9	+4·7	43·3	+1·6	Sheffield.
a Bawtry	65	58	21st	36	19th	51·4	40·1	46·0	+ 8·3	4	0·20	5	- 4	1·9	+ 0·7	24	1	30	41·9	*	43·0	*	Worksop.
a Nottingham	82	57	21, 22	38	19th	52·0	41·0	46·7	+ 9·0	3	0·36	9	- 1	1·8	—	23	0	31	41·8	+5·5	42·3	+2·4	Nottingham.
b, East .. *p* Birmingham, Edgbsn.	535	54	21st	37	20th	50·4	39·7	45·3	+ 7·6	4	0·16	4	- 7	1·7	—	21	0	33	43·6	+4·2	45·6	+1·4	Birmingham.
a Raunds	203	55	21st	35	16th	51·0	38·7	45·1	+ 8·1	4	0·27	7	—	*1·6*	—	*20*	4	27	43·1	*	46·0	*	*Raunds.*
p Oxford	208	54	21st	40	16, 19, 22	51·6	41·1	46·6	+ 7·7	5	0·36	9	- 1	1·5	0·0	19	0	31	*	*	*	*	Oxford.
a Cheadle	646	53	21st	36	19, 20	48·7	38·1	43·6	+ 7·0	6	0·41	10	- 4	*	*	*	2	30	*	*	*	*	Cheadle.
p Shrewsbury	191	55	19, 21	39	22nd	52·1	42·1	47·3	+ 9·1	4	0·15	4	—	*	*	*	0	31	*	*	*	*	Shrewsbury.
c, West .. *a* Hereford§	291	56	21, 22	39	19th	52·4	41·7	47·3	+ 9·1	5	0·17	4	- 9	*0·9*	—	*11*	0	32	42·7	*	44·1	*	*Malvern.*§
a Cirencester	446													*	*	*	*	*	*	*	*	*	Cirencester.
a Bath	66	56	21st	41	18, 19, 21	52·9	43·0	48·2	+ 8·8	5	0·46	12	- 1	1·3	—	16	*	*	44·7	+4·8	46·2	+1·6	Bath.
5. ENGLAND, S.E.														0·8	—	10	1	27	43·9	+5·3	46·1	+2·1	Worthing.
a Marlborough	424	54	21st	39	16, 19, 21	50·3	41·6	46·1	+ 8·7	6	0·62	16	+ 2	1·3	- 0·1	16	0	31	43·6	*	45·8	*	Marlborough.
a Margate ..	53	54	22nd	41	17th	51·1	43·0	47·2	+ 8·2	4	0·31	8	- 1	0·6	- 0·9	7	0	34	44·3	+5·4	45·6	+3·4	Margate.
a Wisley, Surrey	150	54	21st	36	16th	50·9	42·0	46·6	+ 7·4	4	0·30	8	—	1·1	—	14	2	24	43·5	+5·2	45·2	+2·4	Wisley.
p Salisbury (Wilton)	180	54	19-21	38	16th	52·1	42·0	47·3	+ 9·6	6	0·66	17	+ 2	*	*	*	0	31	43·9	*	*	*	Salisbury.
a Tunbridge Wells	354	52	21, 22	36	16th	50·3	41·1	45·9	+ 8·4	5	0·55	14	- 1	0·8	—	10	1	29	43·5	+6·4	45·3	*	Tunbridge Wells.
a Dungeness	21	50	21, 22	42	16, 17	49·0	43·4	46·3	+ 7·1	6	0·52	13	+ 3	*	*	*	*	*	*	*	*	*	Littlestone.
p Hastings ..	178	51	22nd	39	16th	49·4	42·1	45·9	+ 6·5	7	0·70	18	+ 5	1·1	- 0·8	13	0	31	43·4	*	45·5	*	Hastings.
p Southampton	64	54	22nd	40	22nd	51·6	43·1	47·5	+ 7·5	6	0·58	15	+ 1	1·0	- 0·7	13	0	31	*	*	*	*	Southampton.
a Ventnor	59	53	22nd	44	17, 21	50·7	45·6	48·3	+ 6·6	6	0·56	14	0	0·9	- 1·0	11	*	*	*	*	*	*	Ventnor.
LONDON. *p* Kew	18	55	21st	35	16th	51·4	41·2	46·5	+ 7·6	5	0·39	10	+ 1	1·0	- 0·3	12	1	28	43·0	+4·9	45·3	+1·7	Kew.
a Westminster	*27*	*55*	*21st*	*40*	*16, 17*	*52·2*	*44·0*	*48·3*	+ *9·5*	*5*	*0·30*	*8*	- *2*	*0·8*	+ *0·2*	*10*	0	35	*	*	*	*	*Westminster.*
a Greenwich	*155*	*55*	*21st*	*37*	*16th*	*51·3*	*42·1*	*46·9*	+ *8·2*	*5*	*0·30*	*8*	- *1*	*0·9*	- *0·4*	*11*	1	30	*	*	*	*	*Greenwich.*
a Hampstead	*450*	*53*	*21st*	*34*	*16th*	*49·5*	*40·1*	*45·0*	—	*5*	*0·36*	*9*	—	*1·1*	—	*14*	1	25	*	*	*	*	*Hampstead.*
a Camden Square	*110*	*56*	*21st*	*35*	*16th*	*51·7*	*42·0*	*47·0*	—	*4*	*0·29*	*7*	—	*1·1*	—	*14*	1	29	*	*	*	*	*Camden Square.*
7. *a*, ENGLAND, N.W.														2·4	—	30	*	*	*	*	*	*	Hoylake.
p Aspatria ..	250	52	17th	39	20, 22	49·0	41·3	45·3	+ 7·4	7	1·73	44	+ 28	1·3	—	17	0	33	42·8	*	44·0	—	Aspatria.
p Newton Rigg	559	54	21st	35	22nd	50·1	39·7	45·1	+ 8·2	6	1·52	39	+ 20	1·2	- 0·1	16	0	31	41·8	+3·7	42·0	+1·4	Newton Rigg.
p Stonyhurst	375	53	19, 21	36	19th	50·0	40·4	45·4	+ 7·4	5	1·46	37	+ 13	1·1	0·0	14	0	34	*	*	*	*	Stonyhurst.
p Blackpool	66	55	19th	37	20th	50·6	42·0	46·5	+ 7·8	6	0·53	13	- 2	1·5	+ 0·3	19	*	*	*	*	*	*	Blackpool.
a Southport	*37*	*55*	*21st*	*40*	*19th*	*51·3*	*42·7*	*47·2*	+ *8·4*	*5*	*0·46*	*12*	- *3*	*1·7*	+ *0·4*	*22*	0	34	42·4	+5·4	42·8	+2·3	*Southport.*
a Liverpool (Bidston)	188	55	19, 21	39	19th	51·3	43·0	47·3	+ 7·4	6	0·41	10	- 2	2·0	—	*25*	*	*	*	*	*	*	*Liverpool.*
a Hawarden Bridge	22	56	19, 21	39	19, 21	53·3	42·6	48·2	+ 8·0	3	0·13	3	- 6	*0·4*	—	*5*	0	38	43·1	+5·3	45·0	+2·4	*Manchester (City)*
p Manchester (Whit. Pk.)	125	55	21st	40	22nd	51·7	42·1	47·1	+ 8·0	5	0·63	16	+ 3	*0·6*	+ *0·1*	*8*	*	*	*	*	*	*	" *(Whit. Park)*
b NORTH WALES.																							
p Llandudno	71	58	19th	42	20th	53·3	44·6	49·1	+ 7·6	4	0·28	7	- 7	2·8	+ 1·3	35	*	*	*	*	*	*	Llandudno.
a Holyhead	15	52	21st	41	21st	50·1	44·6	47·5	+ 5·6	5	0·83	21	+ 4	*1·9*	—	*24*	*	*	*	*	*	*	*Holyhead.*
p Bettws-y-Coed	148	53	17, 19	40	20th	51·0	42·4	46·9	+ 6·2	6	1·96	50	—	*1·2*	—	15	*	*	45·1	+5·8	46·0	+2·5	Bettws-y-Coed.
														2·0	—	25	*	*	*	*	*	*	Aberdovey.

† At 3 ft.

§ The temperature on the grass refers to Hereford.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Difference from Aver'ge	Rainfall. No. of Rain-Days.	Rainfall in the week.	Difference from Average.	Bright Sunshine. Hours per Day. Daily Mean	Difference from Average.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														1·9	—	24	*	*					Aberystwyth.
a Llangammarch Wells	550	52	17th	39	20, 21	49·7	41·2	45·6	+ 8·4	6	1·55	39	—	1·2	—	15	0	34	43·8	+4·3	46·0	+1·6	Llangammarch.
a Pembroke	149	51	19th	40	21st	49·7	44 6	47·3	+ 4·7	7	0·97	25	+ 6	1·8	+ 0·1	22	*	*	*	*	*	*	Pembroke.
p Cardiff	202	53	19, 21, 22	38	20, 22	51·3	40·9	46·3	+ 6·7	6	0·81	21	0	*1·5*	—	*19*	0	35	44·7	+6·4	46·0	+2·8	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	55	21st	40	21st	51·9	44·7	48·4	+ 8·9	5	1·15	29	+ 13	*1·4*	—	*17*	0	37	*	*	*	*	*Clifton.*
a Shaftesbury	722	51	21st	39	21st	48·9	41·9	45·5	+ 7·9	6	0·46	12	- 3	*	*	*	*	*	43·9	*	45·6	*	Shaftesbury.
a Arlington	613	52	19, 21	39	20, 21	50·1	40·7	45·6	+ 6·3	5	1·00	26	0	*	*	*	*	*	*	*	*	*	Arlington.
a Newquay	*190*	*54*	*21, 22*	*41*	*20th*	*52·7*	*43·9*	*48·5*	+ *4·8*	*6*	*0·37*	*9*	- *8*	1·6	- 0·1	19	0	37	47·6	*	48·3	*	Newquay.
a Cullompton	202	56	21st	37	19th	52·7	44·7	47·4	+ 7·8	6	0·59	15	- 3	1·4	- 0·1	17	1	29	45·5	*	*	*	Cullompton.
a Portland Bill	19	52	20-22	43	21st	51·1	46·3	48·8	+ 7·0	6	0 37	9	—	*1·1*	—	*13*	*	*	*	*	*	*	*Weymouth.*
p Plymouth	116	53	19-22	40	22nd	52·1	44·7	48·6	+ 6·4	6	0 68	17	- 2	1·6	0·0	19	*	*	46·8	+5·4	48·1	*	Plymouth.
a Falmouth	167	54	21st	40	16th	51·9	44·4	48·3	+ 4·8	7	0·95	24	0	2·3	+ 0·5	28	1	29	47·5	*	48·6	*	Falmouth.
9. IRELAND, N.																							
a, West .. { *a* Malin Head	208	52	19, 20	37	17, 20	49·4	39·7	44·7	+ 3·8	5	0·64	16	+ 1	*1·6*	—	*21*	*	*	*	*	*	*	*Malin Head.*
a Blacksod Point ..	?	52	17, 19, 20	35	20th	50·4	39·9	45·4	+ 2·8	6	1·06	27	- 1	*	*	*	*	*	*	*	*	*	*
p Markree Castle ..	122	56	21st	35	20th	50·9	39·4	45·4	+ 6·0	7	1·21	31	+ 10	1·7	+ 0·4	22	0	31	44·8	*	45·9	*	Markree Castle.
a Birr Castle	175	55	19, 21	36	20, 21	52·4	39·3	46·1	+ 6·5	5	0·79	20	+ 4	*1·7*	+ *0·1*	*22*	*	*	*	*	*	*	*Birr Castle.*
b, East .. { *p* Armagh	196	54	19, 21	35	20th	50·4	40·0	45·4	+ 5·9	5	0·90	23	+ 9	2·1	+ 0·6	27	0	32	43·7	+3·7	45·1	+1·9	Armagh.
a Donaghadee	101	55	19, 21	35	21st	50·7	39·9	45·5	+ 5·0	5	0 87	22	+ 7	*	*	*	0	32	45·3	+4·8	46·5	+2·7	Trinity Coll.
10. IRELAND, S.														2·7	+ 0 8	34	0	34	*	*	*	*	Phœnix Park.
a, East .. { *p* Dublin, City	47	57	19, 21	37	20th	53·0	43·0	48·2	+ 6·7	4	0·55	14	+ 1	*	*	*	0	34	*	*	*	*	Dublin City.
a Kilkenny	212	56	19, 21	37	21st	52·7	40·6	46·9	+ 6·8	7	0·71	18	- 2	*	*	*	*	*	*	*	*	*	*
a Waterford	20	52	19-21	38	20th	51·1	41·6	46·5	+ 5·4	6	0·81	21	- 1	*	*	*	*	*	*	*	*	*	*
a Seskin, Carrick-on-Suir	*541*	*55*	*19th*	*35*	*20th*	*50·3*	*39·7*	*45 2*	—	7	*1·26*	*32*	—	*2·1*	—	*26*	0	32	*	*	*	*	*Seskin.*
b, West .. { *a* Birr Castle	175	55	19, 21	36	20, 21	52 4	39·3	46·1	+ 6·5	5	0·79	20	+ 4	1·7	+ 0·1	22	*	*	*	*	*	*	Birr Castle.
a Foynes	50	56	19th	38	20th	53·3	40 9	47·4	+ 5·5	7	0·95	24	+ 3	*	*	*	*	*	*	*	*	*	*
a Cahir	198	55	19th	35	22nd	51·9	38·4	45·4	+ 4·1	7	1·00	25	—	*	*	*	*	*	*	*	*	*	*
a Killarney	174	59	19th	38	20th	55·1	43·1	49·3	+ 6·8	7	1·37	35	- 1	*	*	*	*	*	*	*	*	*	*
a Valencia	30	55	19th	40	21st	53·1	43·6	48·5	+ 4·0	7	1·61	41	+ 9	1·5	- 0·1	19	*	*	*	*	*	*	Valencia.
a Roche's Point	32	54	19th	40	21st	51·3	44·1	47·8	+ 4·3	7	0·79	20	- 6	2·0	—	25	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	53	17, 21	44	16th	52·0	46·0	49·1	+ 3·4	6	0·48	12	- 6	1·9	0·0	23	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	55	21st	43	17th	51·9	46·1	49·1	+ 6·5	7	0·61	15	- 2	1·4	- 0·8	16	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	53	21, 22	43	17th	51·0	46·4	48·8	+ 5 6	7	0·46	12	- 7	1·3	- 0·4	15	0	38	47·2	+4·0	48·7	+2·2	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, January 22nd, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Above Ground.	Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Dur-ation.	High Winds, forces 6 and 7. Dates of Occurrence.	Dur-ation.	Fresh or Moderate Winds, forces 4 and 5. Dur-ation.	Light Winds, forces 2 and 3. Dur-ation.	Calms and Light Airs, forces 0 and 1. Dur-ation.	No Record. Dur-ation.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.		Date and Hour.		Highest Gust with Date and Time.		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.			m/s.	d.	h. m.
1. SCOTLAND, E.																		
Dyce	220	75	‡15**	—	—	—	—	49	87	32	0	S.	10	19th	16h.	24	22nd	8 . 28
Aberdeen*	153	105 {	37 ‡	—	—	19, 20	6	90	65	7	0	S.W. by S.	12	19th	16h	28	19th	16 . 38
			32 ‖															
Edinburgh	485	39	31	19, 21	5	17, 19 to 22	42	80	30	2	0	S. by W.	21	21st	3h.	33	21st	2 . 59
6. SCOTLAND, W.																		
Eskdalemuir	850	50	22	19, 21	6	18 to 22	58	82	19	3	0	SSW.	20	19th	19h.	30	19th	9 . 43
Paisley	188	81	52	—	—	19th	9	100	53	6	0	SW. by S.	14	19th	14h.	32	19th	17 . 24
2. ENGLAND, N.E.																		
Alnwick Castle	340	70	17	—	—	21st	3	45	57	63	0	WSW.	14	21st	11h.	27	21st	9 . 2
South Shields	72	61	12	—	—	19 to 22	20	58	80	10	0	W.	14	21st	11h.	25	21st	13 . 43
Spurn Head	63	40	†	—	—	19 to 22	40	78	33	2	15	—	15	19th	17h.	24	19th	21 . 2
3. ENGLAND, E.																		
Gorleston	52	42	†	—	—	19, 21	12	84	70	3	0	—	14	19th	17h.	20	19th	16 . 44
Shoeburyness	103	90	†	19th	2	19 to 21	26	94	46	0	0	—	18	19th	17h.	22	19th	16 . 37
4. MIDLAND COUNTIES.																		
Benson	270	84	†	—	—	19, 21	17	79	56	16	0	SSW.	13	19th	14h.	23	20th	10 . 17
5. ENGLAND, S.E.																		
Dover	271	40	†	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Warlingham	642	33	†	—	—	19th	5	58	80	25	0	—	13	19th	15h.	25	20th	11 . 57
Brighton	261	53	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Kew	82	65 {	6 ‡	—	—	19th	1	63	96	8	0	SW. by S.	11	19th	15h.	19	20th	10 . 57
			22 ‖															
South Kensington ..	123	92	30	—	—	—	—	21	119	28	0	SW. by S.	7	19th	17h.	15	30th	11 . 8
7. ENGLAND, N.W.																		
Carnforth	246	56	23	—	—	19, 20	4	78	83	3	0	W. by S.	12	20th	13h.	19	20th	10 . 14
Southport	80	62	48	19, 20, 22	13	18 to 22	63	69	23	0	0	WSW.	20	20th	3h.	27	20th	1 . 31
Holyhead*	60	40	†	—	—	17, 19 to 22	81	86	1	0	0	W.	17	20th	11h.	27	20th	12 . 47
8. ENGLAND, S.W.																		
Pendennis Castle§ ..	256	65	24	17, 19, 21	15	16 to 22	86	48	14	5	0	SW.	19	21st	3h.	27	21st	2 . 33
Plymouth	185	88	2	—	—	16, 17, 19 to 22	39	82	40	7	0	—	15	19th	10h.	20	21st	1 . 10
10. IRELAND, S.																		
Quilty	100	40	‡	20th	1	16, 17, 19 to 22	66	91	10	0	0	—	18	20th	8h.	30	20th	4 . 10
Weaver Pt.	160	30	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11. ENGLISH CHANNEL.																		
Scilly*	150	{ 32 {	‡	—	—	16, 19 to 22	51	93	17	4	0	W. by N.	17	20th	9h.	30	20th	8 . 53
		{ 19 }																

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

† Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.

‖ Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew), and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the averages for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the difference of the mean temperature from the average are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

THIRD WEEK—January 16th to January 22nd, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Difference from Average. (25 Years.)	Total Fall.		Difference from Average. (25 Years.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	
			Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (25 Yrs.)	Above 42°	Difference from Av. (25 Yrs.)	Below 42°	Difference from Av. (25 Yrs.)									
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	53	30	81·7	76·2	79·1	+ 2·3	24	+ 17	12	− 20	6	+ 1	1·94	49	+ 12	0·9	+0·1	12	997
Eastern.																			
1. SCOTLAND, EAST ...	57	30	81·9	75·9	79·1	+ 2·7	26	+ 18	13	− 24	5	+ 1	1·09	28	+ 13	2·0	+0·6	28	1002
2. ENGLAND, N.E.	58	35	83·4	77·8	80·8	+ 4·0	33	+ 25	4	− 28	4	+ 1	0·21	6	− 4	2·0	+0·6	26	1010
3. ENGLAND, EAST ...	56	37	83·6	78·2	81·0	+ 4·6	33	+ 25	2	− 35	4	+ 1	0·46	12	+ 3	1·4	−0·2	17	1017
4. MIDLAND COUNTIES ...	58	35	83·7	77·7	80·8	+ 4·3	35	+ 25	4	− 32	4	+ 1	0·31	8	− 3	1·7	+0·3	21	1014
5. ENGLAND, S.E.	55	35	83·4	78·8	81·2	+ 3·9	34	+ 23	0	− 28	6	+ 2	0·52	13	+ 1	1·0	−0·6	12	1019
Western.																			
6. SCOTLAND, WEST ...	54	34	82·3	77·6	80·1	+ 2·5	26	+ 15	5	− 19	7	+ 3	1·53	39	+ 12	1·6	+0·4	20	1006
7. ENGLAND, N.W.	58	35	83·6	78·7	81·2	+ 3·8	34	+ 25	0	− 26	5	+ 1	0·95	24	+ 7	1·7	+0·5	21	1012
8. ENGLAND, S.W.	56	37	83·5	79·2	81·4	+ 3·1	36	+ 19	0	− 20	6	+ 2	0·85	22	+ 2	1·7	+0·1	21	1017
9. IRELAND, NORTH ...	56	35	83·4	77·3	80·4	+ 2·4	33	+ 19	6	− 16	6	+ 1	0·91	23	+ 4	1·9	+0·5	25	1005
10. IRELAND, SOUTH ...	59	35	84·5	78·3	81·5	+ 2·5	39	+ 18	1	− 15	6	+ 2	0·95	24	+ 2	2·0	+0·4	25	1012
11. ENGLISH CHANNEL ...	55	43	83·9	80·9	82·4	+ 2·5	49	+ 24	0	− 7	7	+ 2	0·52	13	− 3	1·5	−0·5	18	1020

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 8 Weeks, November 28th, 1915, to January 22nd, 1916.

0. SCOTLAND, NORTH ...	53	16	79·4	74·7	77·2	+ 0·4	67	+ 2	203	− 49	50	+ 8	13·60	345	+ 81	0·6	−0·1	9	1000
Eastern.																			
1. SCOTLAND, EAST ...	57	8	79·5	74·0	76·9	+ 0·8	76	+ 17	256	− 55	42	+11	8·18	208	+ 80	1·0	−0·1	15	1002
2. ENGLAND, N.E.	60	22	81·1	75·6	78·4	+ 1·5	140	+ 70	151	− 99	37	+ 7	6·00	154	+ 58	1·4	+0·2	18	1005
3. ENGLAND, EAST ...	58	21	82·0	76·4	79·3	+ 2·7	182	+105	111	−177	39	+ 9	5·91	150	+ 62	1·2	−0·2	16	1009
4. MIDLAND COUNTIES ...	59	18	81·8	75·8	78·9	+ 2·3	180	+ 95	139	−153	40	+10	6·59	169	+ 65	1·1	−0·1	15	1008
5. ENGLAND, S.E.	63	17	82·6	77·4	80·1	+ 2·4	238	+120	66	−145	41	+11	8·93	228	+115	1·1	−0·4	15	1011
Western.																			
6. SCOTLAND, WEST ...	54	21	80·4	75·8	78·2	+ 0·6	104	+ 12	141	− 56	48	+12	11·21	286	+ 51	1·1	+0·1	15	1004
7. ENGLAND, N.W.	58	23	81·4	76·6	79·1	+ 1·5	150	+ 55	110	− 89	44	+11	9·12	232	+ 83	1·0	−0·1	13	1006
8. ENGLAND, S.W.	58	22	82·7	78·1	80·4	+ 1·8	243	+ 89	48	−102	45	+11	11·83	302	+111	1·1	−0·4	14	1010
9. IRELAND, NORTH ...	56	19	81·6	76·4	79·1	+ 1·1	154	+ 43	120	− 55	48	+ 9	8·20	207	+ 39	1·2	−0·1	16	1003
10. IRELAND, SOUTH ...	59	20	82·7	77·2	80·1	+ 1·1	236	+ 59	74	− 59	45	+ 8	8·71	220	+ 20	1·4	−0·2	18	1006
11. ENGLISH CHANNEL ...	57	30	83·9	80·1	82·1	+ 1·6	363	+119	7	− 39	45	+ 6	9·90	252	+ 85	1·4	−0·5	18	1012

THE YEAR.—Aggregates, &c., for the Period of 3 Weeks, January 2nd to January 22nd, 1916.

0. SCOTLAND, NORTH ...	53	30	81·5	76·4	79·1	+ 2·7	59	+ 40	32	− 73	20	+ 5	6·82	173	+ 79	0·8	+0·1	12	1003
Eastern.																			
1. SCOTLAND, EAST ...	57	28	82·0	75·9	79·1	+ 3·3	69	+ 51	51	− 73	14	+ 3	2·34	60	+ 16	1·7	+0·5	24	1007
2. ENGLAND, N.E.	60	27	83·2	77·1	80·3	+ 3·8	99	+ 78	22	− 82	9	− 2	0·54	15	− 18	1·8	+0·6	23	1013
3. ENGLAND, EAST ...	56	28	83·1	77·4	80·3	+ 4·2	95	+ 72	19	−101	12	+ 1	1·44	37	+ 7	1·5	+0·1	20	1019
4. MIDLAND COUNTIES ...	58	28	83·3	77·5	80·5	+ 4·4	99	+ 71	16	−103	12	+ 1	1·00	26	− 11	1·5	+0·2	19	1018
5. ENGLAND, S.E.	57	30	83·2	78·3	80·8	+ 3·8	104	+ 70	11	− 81	14	+ 3	1·20	31	− 8	1·3	−0·2	17	1021
Western.																			
6. SCOTLAND, WEST ...	54	32	82·3	77·7	80·1	+ 3·0	78	+ 51	13	− 71	19	+ 6	3·48	89	+ 9	1·4	+0·3	20	1011
7. ENGLAND N.W.	58	28	83·3	78·6	81·0	+ 3·9	99	+ 71	4	− 81	16	+ 4	2·18	55	+ 5	1·2	+0·1	15	1017
8. ENGLAND, S.W.	57	30	83·2	79·4	81·4	+ 3·3	106	+ 57	0	− 66	15	+ 3	2·19	57	− 6	1·3	−0·2	16	1022
9. IRELAND NORTH ...	56	35	83·2	78·1	80·7	+ 2·9	95	+ 57	8	− 64	18	+ 4	1·92	49	− 10	1·3	0·0	17	1013
10. IRELAND, SOUTH ...	59	35	84·1	79·0	81·6	+ 2·9	117	+ 57	1	− 53	17	+ 4	1·70	43	− 29	1·3	−0·2	16	1020
11. ENGLISH CHANNEL ...	56	39	83·9	80·8	82·4	+ 2·5	145	+ 70	0	− 25	15	+ 1	1·07	27	− 27	1·5	−0·5	19	1025
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	m.m.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., January 27th, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 13

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 4. SUNDAY, JANUARY 23RD TO SATURDAY, JANUARY 29TH, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE FOURTH WEEK OF 1916.

Temperature was again mild but the excess above the average was not quite so marked as in the preceding week. It ranged from + 2·9° A. (5·2° F.) in the Midland Counties and England South-East to + 1·5° A. (2·7° F.) in Scotland West. The absolute maximum for the week exceeded 283° A. (50° F.) at nearly all stations and readings of 286° A. (55° F.) or over were recorded at several places. Minima down to the freezing point occurred at isolated stations in all districts except the English Channel. The lowest records were 267° A. (21° F.) at Balmoral and 269° A. (24° F.) at West Linton, both on the 28th. In the South the lowest readings were measured for the most part on the 23rd. Grass minima of 264° A. (15° F.) were measured at West Linton and Wisley (Surrey). In Scotland North and West and in Ireland rain was recorded on nearly every day of the week. In the east of England it fell on one or two days only. The total fall showed equally great variations, there being an excess of 31 mm. above the average in Scotland North and a deficiency of 16 mm. in England South-West. Very heavy falls occurred at Glencarron, Fort Augustus and Fort William on the 24th and 25th, the total for the two days being about 85 mm. at each station. A landslide occurred which blocked the railway between the two latter places for some days. Bright sunshine showed little departure from the average in most districts. On the last two days of the week fog was prevalent at several stations in the South-East of the country. Sea temperature was below the average in the extreme north but in excess in most other districts, as much as 3·1° A. (5°·5 F.) at Eastbourne.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.*		ENGLAND, E.		NORTH WALES.		ENGLAND, S.W.		IRELAND, S.W.	
	Frequency (Max. 6.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.
		m/s		m/s		m/s		m/s		m/s
South	6	7·8	6	2·7	6	7·0	6	4·5	6	6·5
North	0	0·0	1	1·5	1	2·0	1	3·8	1	1·7
West	4	6·7	5	3·0	6	4·8	5	4·8	4	2·6
East	2	2·2	1	1·4	1	1·3	1	1·8	3	1·8
Calm	0	—	0	—	0	—	0	—	0	—

* *See* note in last week's report. The Anemometer was repaired on 27th January, and the values for that day have been omitted from the table.

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH AVERAGE.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ... Warmth ...	Unusual	Unusual	Unusual	Unusual	Unusual	Very unusual	Unusual	Very unusual	Unusual	Very unusual	Unusual	Unusual
Rainfall ...	Heavy	Moderate	Light	Light	Light	Light	Moderate	Light	Light	Moderate	Moderate	Light
Sunshine ...	Moderate	Moderate	Moderate	Moderate	Moderate	Abundant	Scanty	Moderate	Moderate	Moderate	Deficient	Moderate

II.—THE WINTER SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

WINTER. 9 weeks from Nov. 28th, 1915. Warmth ...	4, 2, 3	5, 1, 3	5, 3, 1	6, 3, 0	6, 2, 1	6, 3, 0	5, 3, 2	5, 3, 1	6, 2, 1	5, 2, 2	5, 3, 1	7, 1, 1
Rainfall ...	5, 4, 0	5, 3, 1	4, 2, 3	7, 0, 2	4, 3, 2	5, 2, 2	5, 1, 3	6, 1, 2	6, 1, 2	4, 4, 1	2, 4, 3	5, 1, 3
Sunshine ...	1, 7, 1	2, 5, 2	3, 5, 1	0, 7, 2	0, 7, 2	1, 5, 3	4, 3, 2	3, 5, 1	0, 5, 4	2, 5, 2	1, 4, 4	0, 3, 6

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1° A. = increment of $\frac{9}{5}$° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(7226—19.) Wt. 160—610. 450. 2/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Difference from Aver'ge	No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Daily Mean.	Difference from Average	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean	Earth 4 ft. Difference from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.																							
a, Islands .. *p* Baltasound	*31*																						*Baltasound.*
a Lerwick ..	54	48	25th	34	27, 28	46·0	36·9	41·6	+ 2·6	7	1·30	33	—	1·3	+ 0·2	18							Deerness.
a Stornoway	51	51	24, 25	32	27th	47·7	36·7	42·4	+ 3·3	7	1·89	48	+ 20	0·9	- 0·3	12							Stornoway.
a Castlebay, Barra Isd.	*37*	*50*	*24, 25*	*35*	*23rd*	*48·7*	*39·4*	*44·2*	+ *2·6*	*7*	*0·94*	*24*	—	*1·0*	—	*13*							*Castlebay.*
b, Mainland. *a* Wick	81	52	24th	32	27th	46·7	35·3	41·2	+ 3·1	4	0·45	11	- 3										
p Strathpeffer	200	53	24th	30	27, 28	48·0	36·1	42·3	+ 5·3	5	1·65	42	+ 24	1·0	- 0·3	13							Strathpeffer.
p Glencarron	500	52	23rd	30	24th	47·1	36·4	42·0	+ 5·4	7	5·43	138	+ 83										
p Fort Augustus	68	52	23rd	31	27th	48·3	38·1	43·4	+ 5·7	6	4·44	113	+ 83	0·2	- 0·6	3							Fort Augustus.
p Fort William	171	51	23rd	34	27th	47·9	39·4	43·8	+ 4·5	6	4·78	121	+ 69										
1. SCOTLAND, E.																							
p Gordon Castle	101	55	25th	30	28th	49·0	37·0	43·2	+ 4·9	3	0·27	7	- 5	1·8	—	24	4	18	37·8	+2·9	39·3	+1·7	Crathes.
a Nairn	82	52	23, 29	29	28th	48·0	34·6	41·6	+ 4·2	6	1·12	29	+ 18	*2·0*	—	*26*							*Gordon Castle.*
a Aberdeen	46	56	25th	32	28th	48·7	36·0	42·6	+ 4·8	2	0·13	3	- 10	2·2	—	29							Nairn.
a Balmoral	930	53	24th	21	28th	47·1	33·6	40·6	+ 6·6	3	0·32	8	- 9	1·8	0·0	24					40·7	+1·4	Aberdeen.
p Crieff	432	49	23, 25	29	27th	46·7	35·9	41·5	+ 4·3	7	1·23	31	+ 9	1·3	—	16	3	18					Balmoral.
a Leith	18	51	24, 25, 29	32	28th	48·6	37·4	43·2	+ 4·0	3	0·55	14	+ 5										Balruddery.
a West Linton	769	47	25th	24	28th	44·7	34·0	39·6	+ 4·7	6	1·13	29	—	*0·4*	—	*5*	5	15					*West Linton.*
p Marchmont	498	49	25th	29	28th	46·6	35·9	41·5	+ 5·0	3	0·84	21	+ 8	0·7	- 0·9	9	3	24					Marchmont.
a Edinburgh	*441*	*50*	*29th*	*32*	*27th*	*48·0*	*38·1*	*43·3*	—	*4*	*0·68*	*17*	—	1·7	—	22	2	24					Edinburgh.
6. *a*, SCOTLAND, W.																							
a Poltalloch	132	50	23rd	34	27, 28	47·4	37·7	42·7	+ 3·7	7	1·83	46	+ 20										
p Glasgow Observatory	180	49	23–25, 29	31	27th	47·4	39·0	43·4	+ 4·9	7	1·14	29	+ 11	0·3	- 0·6	4	1	25					Glasgow.
p Rothesay	170	50	25th	34	27, 28	47·7	38·7	43·4	+ 3·9	7	1·48	38	+ 14	*0·8*	—	*10*	1	27	41·1		44·0		*Rothesay.*
a Kilmarnock	90	49	23–25, 29	31	27th	47·7	38·0	43·0	+ 3·5	7	1·02	26	—	*1·2*	—	*15*							*Kilmarnock.*
a Colmonell	170	52	29th	32	27, 28	48·3	38·6	43·6	+ 4·5	7	1·17	30	+ 5				2	25					
a Dumfries	160	49	25th	35	28th	46·4	39·4	43·0	+ 4·6	6	1·09	28	+ 9	*0·7*	—	*9*	0	32	41·5		42·4		*Dumfries.*
Eskdalemuir	*499*	*46*	*25th*	*28*	*28th*	*43·7*	*33·3*	*38·7*	—	*6*	*2·60*	*66*	—	*0·4*	—	*5*							*Eskdalemuir.*
p Cally, Gatehouse	120	48	23, 25	30	27th	46·4	37·0	41·9	+ 3·9	6	1·07	27	+ 2										
b, I. OF MAN. *p* Douglas	277	48	23–26, 29	37	27th	47·6	42·1	45·0	+ 4·3	5	0·38	10	- 10	1·1	- 0·7	14	0	33					Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	52	29th	30	28th	48·1	36·6	42·6	+ 4·4	2	0·65	17	+ 4	1·0	—	13	3	29	40·1	+4·4	41·9	+2·8	Cockle Park.
a Tynemouth	71	51	29th	37	27th	47·7	40·0	44·0	+ 5·4	1	0·24	6	- 3										*Tynemouth.*
p Durham	336	51	29th	34	26, 28	48·7	37·9	43·5	+ 6·3	1	0·12	3	- 6	1·6	0·0	20	1	29					Durham.
a, North .. *p* Rounton	249	50	26, 29	35	24th	49·0	40·0	44·7	+ 7·7	2	0·39	2	- 8				3	28	41·3				Rounton.
a West Witton	*605*	*49*	*26, 28*	*35*	*28th*	*46·7*	*33·7*	*42·9*	—	*5*	*0·76*	*4*	—				1	30	41·5		41·6		*West Witton.*
p Scarborough	100	49	26, 29	37	23rd	46·9	39·4	43·3	+ 4·8	1	0·02	1	- 10	2·0	—	25					42·5†		Scarborough.
p York	56	51	26th	35	23rd	49·4	40·9	45·3	+ 7·1	1	0·01	0	- 9	0·9	- 0·3	11			42·6	+5·4	44·0	+3·1	York.
b, South .. *a* Spurn Head	26	48	29th	36	23rd	46·0	39·6	42·9	+ 4·3	0	0·00	0	- 7	*1·6*	—	*20*							*Spurn Head.*
a Lincoln	58	51	26, 28, 29	33	23rd	49·9	39·4	44·9	+ 7·6	0	0·00	0	- 9						42·0	+5·5	44·1	+3·6	Lincoln.
a Fulbeck	180	51	28, 29	33	23rd	48·4	38·4	43·6	+ 6·0	3	0·05	1	- 9	2·5	—	30	2	25	42·7	+5·8	44·6	+2·3	Rauceby.
														2·3	—	28							Skegness.
3. ENGLAND, E.																							
p Cromer	196	51	26th	34	23rd	48·0	38·6	43·5	+ 6·6	3	0·14	4	—	2·5	—	30							Cromer.
p Little Massingham	280	49	29th	31	23rd	47·6	37·0	42·5	+ 5·4	0	0·00	0	- 11	2·6	+ 0·9	31	3	26					Lit. Massingham.
a, North .. *a* Yarmouth	13	52	26th	34	23, 24	47·6	38·7	43·3	+ 5·9	0	0·00	0	- 9	2·5	—	30			42·9	+6·9	45·9	+4·1	Yarmouth.
a Norwich	93	50	26th	30	23rd	47·1	38·3	42·9	+ 5·7	0	0·00	0	—	*2·6*	—	*31*	2	24	41·1				*Norwich.*
a Geldeston	37	52	26th	31	23rd	48·9	38·0	43·7	+ 5·7	2	0·02	1	- 8	2·8	+ 0·9	34							Geldeston.
b, South .. *p* Cambridge	41	53	29th	29	23rd	50·1	38·3	44·4	+ 6·7	1	0·04	1	- 7	2·8	+ 1·0	33	2	24	42·4	+5·7	45·0	+3·2	Cambridge.
a Clacton-on-Sea	54	51	28th	35	23rd	47·9	39·9	44·1	+ 5·9	2	0·05	1	—	2·8	—	33	1	27	42·9	+4·9	45·3	+1·8	Clacton.
a Rothamsted	424	50	28, 29	27	23rd	48·0	36·0	42·2	+ 4·8	2	0·12	3	- 9	2·4	+ 0·7	29	4	20	42·1				Rothamsted.
p Tottenham	51	53	25th	30	23rd	51·0	41·6	46·5	+ 7·7	2	0·11	3	—	1·1	—	13	1	29			46·0	+3·0	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate	479	50	29th	35	23, 24	47·1	38·3	42·9	+ 6·1	2	0·07	2	- 11	1·6	—	20	0	31	41·7	+4·5	42·4	+2·8	Harrogate.
p Buxton	*987*	*47*	*26, 28, 29*	*34*	*23rd*	*45·7*	*38·0*	*42·0*	+ *6·6*	*4*	*0·27*	*7*	- *19*	*1·4*	*	*17*	1	27	40·2	+4·0	42·2	+0·5	*Buxton.*
a Bawtry	65	51	26th	31	23rd	48·7	38·4	43·8	+ 6·1	1	0·01	0	- 9	1·7	—	21	1	30	41·8	+5·5	43·3	+2·2	Sheffield.
a Nottingham	82	51	28th	32	23, 24	48·9	38·1	43·7	+ 5·9	2	0·06	2	- 8	1·1	- 0·3	13	2	26	42·1	*	43·2	*	Worksop.
b, East .. *p* Birmingham, Edgbsn.	535	50	28th	33	23rd	47·9	39·6	43·9	+ 6·2	4	0·06	2	- 9	1·7	—	20	1	26	41·3	+5·9	42·7	+3·4	Nottingham.
a Raunds	203	53	28th	28	23rd	49·9	36·0	43·2	+ 6·0	3	0·06	2	—	1·5	—	18	2	26	43·2	+4·7	45·7	+1·9	Birmingham.
p Oxford	208	52	28th	34	23rd	50·0	41·0	45·7	+ 6·8	2	0·12	3	- 7	*3·1*	—	*37*	3	22	43·3	*	46·0	*	*Raunds.*
														2·6	+ 0·9	31	1	23	*	*	*	*	Oxford.
a Cheadle	646	50	28th	32	23rd	47·0	37·6	42·5	+ 5·6	2	0·06	2	- 12	*	*	*	2	27	*	*	*	*	Cheadle.
p Shrewsbury	191	53	26, 28	36	23rd	50·9	41·1	46·2	+ 7·7	1	0·06	1	-	*	*	*	1	26	*	*	*	*	Shrewsbury.
c, West .. *a* Hereford§	291	51	29th	32	23rd	49·3	39·0	44·4	+ 6·0	2	0·09	2	- 11	*1·9*	—	*23*	2	25	42·3	*	44·1	*	*Malvern.*§
a Cirencester	446													*	*	*	*	*	*	*	*	*	Cirencester.
a Bath	66	55	29th	29	23rd	51·4	39·4	45·6	+°6·1	2	0·13	3	- 10	2·3	—	27	*	*	44·1	+4·9	46 2	+2·2	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	51	28th	27	23rd	48·7	37·7	43·4	+ 5·9	3	0·15	4	- 10	2·8	—	33	2	25	44·0	+6·0	46·2	+2·8	Worthing.
a Margate	53	54	26th	37	25th	50·7	41·9	46·5	+ 7·4	1	0·09	2	- 7	1·9	+ 0·4	23	2	20	43·8	*	45·9	*	Marlborough.
a Wisley, Surrey	150	53	29th	27	23rd	50·4	38·9	44·9	+ 5·5	1	0·02	1	—	2·8	+ 1·1	33	0	31	41·2	+6·0	45·9	+4·4	Margate.
p Salisbury (Wilton)	180	54	27th	28	23rd	51·4	37·1	44·5	+ 6·7	2	0·04	1	- 14	2·7	—	31	3	15	43·5	+6·2	45·4	+3·2	Wisley.
a Tunbridge Wells	354	52	26th	30	23rd	50·3	39·3	45·0	+ 7·3	2	0·06	2	- 12	*	*	*	3	26	43·4	*	*	*	Salisbury.
														2·5	+ 0·9	29	2	21	45·6	+7·0	45·4	*	Tunbridge Wells.
a Dungeness	21	49	23, 25, 29	34	23rd	48·7	42·0	45·5	+ 6·3	1	0·04	1	- 9	*	*	*	*	*	*	*	*	*	Littlestone.
p Hastings	178	51	26, 29	37	25th	50·0	42·1	46·2	+ 6·6	4	0·08	2	- 11	2·9	+ 0·8	34	3	28	43·7	*	45·7	*	Hastings.
p Southampton	64	52	27th	29	23rd	50·9	40·1	45·7	+ 5·5	2	0·03	1	- 13	2·0	+ 0·2	23	3	22	*	*	*	*	Southampton.
a Ventnor	59	52	24–26	39	23rd	51·3	44·0	47·8	+ 6·3	5	0·06	1	- 13	1·8	- 0·2	21	*	*	*	*	*	*	Ventnor.
LONDON. *p* Kew	18	53	28, 29	27	23rd	50·5	40·1	45·5	+ 6·5	2	0·07	2	- 7	2·5	+ 1·0	30	2	24	43·3	+6·2	45·5	+2·5	Kew.
a Westminster	*27*	*56*	*28th*	*30*	*23rd*	*52·1*	*40·9*	*46·7*	+ *7·6*	*2*	*0·09*	*2*	- *7*	*2·5*	+ *1·3*	*30*	1	29	*	*	*	*	*Westminster.*
a Greenwich	*155*	*54*	*28th*	*29*	*23rd*	*50·7*	*40·0*	*45·6*	+ *6·9*	*2*	*0·06*	*2*	- *7*	*3·1*	+ *1·6*	*37*	1	25	*	*	*	*	*Greenwich.*
a Hampstead	*450*	*52*	*29th*	*?29*	*23rd*	*48·8*	*39·6*	*44·4*	—	*2*	*0·09*	*2*	—	*2·3*	—	*26*	3	19	*	*	*	*	*Hampstead.*
a Camden Square	*110*	*53*	*28th*	*30*	*23rd*	*50·9*	*39·3*	*45·3*	—	*2*	*0·10*	*3*	—	*1·8*	—	*21*	2	25					*Camden Square.*
7. *a*, ENGLAND, N.W.																							
p Aspatria	250	49	28th	34	27th	47·7	40·7	44·3	+ 6·4	7	1·65	42	+ 27	1·3	—	16	*	*	*	*	*	*	Hoylake.
p Newton Rigg	559	49	26th	30	28th	47·4	38·1	42·9	+ 6·1	6	0·91	23	+ 4	0·7	—	9	0	32	42·6	*	44·0	*	Aspatria.
p Stonyhurst	375	50	28th	34	23rd	48·1	39·6	44·0	+ 6·1	6	0·39	10	- 13	1·0	- 0·5	13	3	22	41·5	+4·1	42·1	+1·9	Newton Rigg.
p Blackpool	66	51	23, 28	35	23rd	48·9	40·3	44·8	+ 6·1	5	0·11	3	- 13	1·1	- 0·2	14	1	29	*	*	*	*	Stonyhurst.
a Southport	*37*	*51*	*26, 28*	*35*	*23rd*	*48·9*	*40·4*	*44·8*	+ *5·8*	*2*	*0·04*	*1*	- *14*	1·4	- 0·1	17	*	*	*	*	*	*	Blackpool.
a Liverpool (Bidston)	188	55	23rd	36	23, 24	49·6	41·4	45·7	+ 5·9	2	0·08	2	- 10	*1·4*	—	*17*	1	30	42·0	+6 1	42·9	+3·0	*Southport.*
a Hawarden Bridge	22	53	26, 28, 29	38	23rd	51·1	40·3	45·9	+ 5·7	2	0·02	1	- 8	*1·5*	—	*19*	*	*	*	*	*	*	*Liverpool.*
p Manchester (Whit. Pk.)	125	52	26th	35	23rd	49·7	41·1	45·6	+ 6·4	3	0·13	3	- 10	*0·6*	—	7	0	32	42·6	+5·8	45·1	+3·0	*Manchester (City)*
														0·9	+ *0·2*	*11*	*	*	*	*	*	*	" *(Whit. Park)*
b NORTH WALES.																							
p Llandudno	71	54	24th	37	28th	52·1	42·3	47·4	+ 6·0	4	0·58	15	+ 1	1·8	+ 0·1	22	*	*	*	*	*	*	Llandudno.
a Holyhead	15	?51	29th	39	28th	49·1	43·9	46·6	+ 5·0	4	0·28	7	- 9	*1·0*	—	*12*	*	*	*	*	*	*	*Holyhead.*
p Bettws-y-Coed	148	51	23, 24, 29	36	23rd	50·1	41·6	46·0	+ 5·5	5	0·48	12	—	1·1	—	13	*	*	44·6	+6·3	46·0	+2·9	Bettws-y-Coed.
														1·1	—	13	*	*	*	*	*	*	Aberdovey.

† At 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. in Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Difference from Aver'ge	Rainfall. No. of Rain-Days.	Rainfall in the week.	Difference from Average.	Bright Sunshine. Hours per Day. Daily Mean	Difference from Average.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
														1·1	—	13	*	*	*	*	*	*	Aberystwyth.
8. *a*, SOUTH WALES.														1·0	—	12	3	21	43·4	+4·8	46·0	+2·1	Llangammarch.
a Llangammarch Wells	550	50	29th	27	23rd	48·0	38·9	43·6	+ 6·1	4	0·29	7	—	1·7	- 0·2	20	*	*	*	*	*	*	Pembroke.
a Pembroke	149	50	23, 29	43	25th	49·0	45·3	47·2	+ 4·7	4	0·26	7	- 11	1·7	—	23	1	29	44·4	+6·5	46·0	+3·3	*Cardiff.*
p Cardiff	202	53	29th	34	23rd	50·1	41·6	46·0	+ 6·3	4	0·26	7	- 13	*1·9*	—	*23*							
b, ENGLAND, S.W.																							
a Clifton	229	53	28, 29	34	23, 24	50·4	40·1	45·5	+ 5·8	3	0·25	6	- 9	*1·9*	—	*23*	0	37	*	*	*	*	*Clifton.*
a Shaftesbury	722	51	29th	37	23, 25	47·9	40·4	44·3	+ 6·6	2	0·02	1	- 14	*	*	*	*	*	43·8	*	45·6	*	Shaftesbury.
a Arlington	613	50	28, 29	33	23rd	48·6	38·3	43·7	+ 4·5	4	0·61	16	- 9	*	*	*	*	*	*	*	*	*	Arlington.
a Newquay	*190*	*53*	*28th*	*35*	*23rd*	*50·7*	*41·0*	*46·0*	+ *2·5*	*3*	*0·09*	*2*	- *15*	2·6	+ 0·7	30	0	31	47·0	*	48·3	*	Newquay.
a Cullompton	202	55	29th	29	23rd	51·4	37·1	44·5	+ 4·6	3	0·05	1	- 17	1·9	+ 0·3	22	4	24	44·9	*	*	*	Cullompton.
a Portland Bill	12	53	29th	41	23rd	50·7	45·6	48·3	+ 6·6	3	0·14	4	—	*2·3*	—	*26*	*	*	*	*	*	*	*Weymouth.*
p Plymouth	116	54	29th	36	25th	52·0	43·6	48·0	+ 5·8	4	0·15	4	- 15	2·4	+ 0·6	28	*	*	46·2	+5·6	48·1	*	Plymouth.
a Falmouth	167	53	27, 29	37	23rd	51·1	42·3	46·9	+ 3·6	3	0·09	2	- 21	2·5	+ 0·5	29	2	25	47·1	*	48·4	*	Falmouth.
9. IRELAND, N.																							
a Malin Head	208	50	23-25, 29	36	23, 28	49·4	38·3	44·1	+ 3·2	4	0·76	19	+ 4	*1·3*	—	*16*	*	*	*	*	*	*	*Malin Head.*
a, West .. *a* Blacksod Point ..	?	51	25th	38	24th	49·0	40·6	45·0	+ 2·5	7	1·65	42	+ 15	*	*	*	*	*	*	*	*	*	
p Markree Castle ..	122	52	23, 25, 29	31	27th	50·3	37·6	44·2	+ 4·7	7	1·04	26	+ 5	1·3	- 0·2	16	2	28	44·0	*	45·8	*	Markree Castle.
a Birr Castle	175	52	23, 26, 28	35	24, 25	50·6	40·0	45·5	+ 5·7	5	0·51	13	- 2	*1·5*	*- 0·3*	*18*	*	*	*	*	*	*	*Birr Castle.*
b, East .. *p* Armagh	196	52	28th	34	27th	49·9	38·7	44·5	+ 4·8	5	0·96	24	+ 10	1·8	+ 0·2	22	2	29	42·8	+3·1	45·0	+1·9	Armagh.
a Donaghadee	101	51	25, 28	35	28th	48·7	38·9	44·0	+ 3·5	5	0·80	20	+ 5	*	*	*	2	28	44·8	+5·1	46·1	+2·7	Trinity Coll. Phœnix Park.
														1·4	- 0·6	17	2	29	*	*	*	*	Dublin City.
10. IRELAND, S.														*	*	*	0	33	*	*	*	*	
p Dublin, City	47	54	26th	38	24, 28	51·3	42·4	47·0	+ 5·3	3	0·21	5	- 8	*	*	*	*	*	*	*	*	*	
a, East .. *a* Kilkenny	212	51	23, 28	32	23rd	50·1	40·7	45·6	+ 5·4	6	0·21	5	- 14	*	*	*	*	*	*	*	*	*	
a Waterford	20	52	24th	35	24th	50·0	40·9	45·6	+ 4·4	5	0·35	9	- 13	*	*	*	*	*	*	*	*	*	
a Seskin, Carrick-on-Suir	*541*	*51*	*26th*	*35*	*24th*	*48·6*	*41·3*	*45·1*	—	*5*	*0·73*	*19*	—	*1·3*	—	*16*	1	30	*	*	*	*	*Seskin.*
a Birr Castle	175	52	23, 26, 28	35	24, 25	50·6	40·0	45·5	+ 5·7	5	0·51	13	- 2	1·5	- 0·3	18	*	*	*	*	*	*	Birr Castle.
a Foynes	50	54	23rd	37	23rd	51·9	41·4	46·9	+ 4·8	7	0·78	20	0	*	*	*	*	*	*	*	*	*	
a Cahir	199	52	26th	32	24th	49·9	38·1	44·2	+ 3·0	7	0·39	10	—	*	*	*	*	*	*	*	*	*	
b, West .. *a* Killarney	174	56	28th	37	24th	52·6	43·4	48·2	+ 5·8	7	1·10	28	- 7	*	*	*	*	*	*	*	*	*	
a Valencia	30	52	26, 28, 29	41	24th	51·3	44·0	47·8	+ 3·4	7	0·91	23	- 8	1·7	- 0·1	20	*	*	*	*	*	*	Valencia.
a Roche's Point	32	51	25th	38	25th	49·9	43·0	46·6	+ 3·2	6	0·45	12	- 13	0·9	—	10	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	52	27–29	43	24th	51·3	45·4	48·5	+ 3·0	3	0·16	4	- 13	2·3	+ 0·2	26	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	52	28th	34	25th	51·0	41·4	46·4	+ 3·8	3	0·12	3	- 14	2·6	+ 0·2	29	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	53	29th	38	25th	51·3	44·0	47·8	+ 4·5	5	0·10	3	- 15	2·4	+ 0·5	28	1	29	46·9	+4·8	48·9	+3·0	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, January 29th, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Above Ground.	Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Dur-ation.	High Winds, forces 6 and 7. Dates of Occurrence.	Dur-ation.	Fresh or Moderate Winds, forces 4 and 5. Dur-ation.	Light Winds, forces 2 and 3. Dur-ation.	Calms and Light Airs, forces 0 and 1. Dur-ation.	No Record. Dur-ation.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.	Date and Hour.	Highest Gust with Date and Time.
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	m/s.		m/s. d. h. m.
1. SCOTLAND, E.														
Dyce	220	75	‡15**	—	—	—	—	42	97	29	0	S. by W. 10	23rd 21h.	22 23rd 22 . 10
Aberdeen*	153	105	37 ‖	—	—	23, 29	5	69	79	15	0	S. by E. 12	23rd 18h.	23 29th 12 . 46
			52 ‖											
Edinburgh	485	39	31	23rd	4	23 to 25, 28, 29	48	65	38	13	0	S. 20	23rd 23h.	32 23rd 21 . 5
6. SCOTLAND, W.														
Eskdalemuir	850	50	22	23 to 25	13	23 to 26, 28, 29	67	38	20	30	0	S. by W. 20	23rd 24h.	32 24th 0 . 57
Paisley	188	81	52	—	—	23, 29	18	72	55	23	0	SW. by S. 15	23rd 16h.	30 23rd 15 . 36
2. ENGLAND, N.E.														
Alnwick Castle	340	70	17	—	—	24th	3	39	55	71	0	WSW. 12	24th 23h.	24 24th 22 . 55
South Shields	72	61	12	—	—	24, 25	17	47	68	36	0	W. 14	24th 24h.	23 24th 2 . 30
Spurn Head	66	40	†	—	—	23 to 25	5	112	25	2	24	— 12	23rd 23h.	19 24th 4 . 55
3. ENGLAND, E.														
Gorleston	52	42	‡	—	—	23rd	2	61	96	9	0	— 12	23rd 24h.	17 23rd 23 . 56
Shoeburyness	103	90	‡	—	—	23rd	1	56	100	11	0	— 11	23rd 21h.	14 23rd 20 . 39
4. MIDLAND COUNTIES.														
Benson	270	84	‡	—	—	—	—	53	96	19	0	S. 10	23rd 19h.	17 25th 13 . 50
5. ENGLAND, S.E.														
Dover	271	40	‡	—	—	23, 24	5	59	50	54	0	— 13	23rd 23h.	19 23rd 22 . 3
Warlingham	642	33	‡	—	—	—	—	9	136	23	0	— 8	23rd 23h.	14 23rd 23 . 12
Brighton	281	53	6	—	—	—	—	—	—	—	—	— —	— —	— — —
Kew	82	65	6 ‖	—	—	—	—	19	124	23	2	SW. by S. 8	24th 5h.	13 23rd 21 . 40
			22 ‖											
South Kensington ..	123	92	30	—	—	—	—	—	125	43	0	SW. by W. 5	25th 13h.	10 25th 13 . 11
7. ENGLAND, N.W.														
Carnforth	246	56	23	—	—	—	—	37	81	33	17	WNW. 8	24th 2h.	19 24th 1 . 35
Southport	80	62	48	—	—	23 to 26	37	92	30	9	0	SW. by W. 15	25th 23h.	28 24th 1 . 45
Holyhead*	60	40	†	—	—	23 to 26, 29	71	72	19	6	0	SSW. 19	23rd 23h.	23 23rd 24 . 25
8. ENGLAND, S.W.														
Pendennis Castle§ ..	256	65	24	23rd	1	23 to 29	43	86	38	0	0	S. by W. 17	23rd 17h.	21 23rd 17 . 34
Plymouth	185	88	2	—	—	23rd	9	67	88	4	0	— 12	23rd 19h.	15 23rd 19 . 2
10. IRELAND, S.														
Quilty	100	40	‡	—	—	23 to 26, 28, 29	77	57	26	8	0	— 15	23rd 18h.	21 23rd 17 . 48
Weaver Pt.	160	30	‡	—	—	—	—	—	—	—	—	— —	— —	— — —
11. ENGLISH CHANNEL.														
Scilly*	150	32	‡	—	—	—	—	110	57	1	0	NW. by W. 11	24th 4h.	16 23rd 17 . 37
		19												

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

‡ Standard mounting.

§ Direction from the Robinson Anemometer at Falmouth Observatory.

‖ Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew), and the latter is the height of the vane above the main roof.

** Above tops of trees.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the averages for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the difference of the mean temperature from the average are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

FOURTH WEEK—January 23rd to January 29th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Difference from Average. (25 Years.)	Total Fall.		Difference from Average. (25 Years.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	
			Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (25 Yrs.)	Above 42°	Difference from Av. (25 Yrs.)	Below 42°	Difference from Av. (25 Yrs.)									
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	53	30	81·6	75·8	78·8	+ 2·0	24	+ 16	14	− 18	6	0	2·85	72	+ 31	0·9	0·0	11	1009
Eastern.																			
1. SCOTLAND, EAST ...	56	21	81·6	75·0	78·4	+ 1·7	15	+ 5	28	− 8	4	− 1	0·70	18	+ 3	1·6	−0·1	21	1014
2. ENGLAND, N.E.	52	30	82·0	76·9	79·6	+ 2·5	25	+ 15	8	− 22	1	− 2	0·13	3	− 6	1·7	0·0	21	1022
3. ENGLAND, EAST ...	53	27	82·2	76·6	79·5	+ 2·7	27	+ 17	10	− 24	1	− 3	0·05	1	− 9	2·4	+0·4	29	1026
4. MIDLAND COUNTIES ...	55	28	82·5	76·8	79·8	+ 2·9	29	+ 17	9	− 24	2	− 2	0·07	2	− 11	1·8	+0·1	22	1024
5. ENGLAND, S.E.	54	27	83·2	77·6	80·5	+ 2·9	32	+ 19	5	− 20	2	− 1	0·06	2	− 11	2·4	+0·6	28	1027
Western.																			
6. SCOTLAND, WEST ...	52	30	81·6	76·8	79·3	+ 1·5	23	+ 10	9	− 14	7	+ 1	1·15	29	+ 1	0·7	−0·6	9	1018
7. ENGLAND, N.W.	55	30	82·7	77·9	80·4	+ 2·8	28	+ 17	3	− 21	4	0	0·46	12	− 7	1·2	−0·2	15	1022
8. ENGLAND, S.W.	55	27	82·9	78·2	80·7	+ 2·2	30	+ 12	2	− 16	3	− 2	0·21	6	− 16	1·9	+0·1	22	1026
9. IRELAND, NORTH ...	52	31	82·8	76·9	80·0	+ 1·9	31	+ 16	8	− 13	6	+ 1	0·96	24	+ 3	1·6	0·0	19	1015
10. IRELAND, SOUTH ...	56	32	83·4	78·3	81·0	+ 1·9	33	+ 11	1	− 14	6	+ 1	0·55	14	− 7	1·4	−0·4	16	1020
11. ENGLISH CHANNEL ...	53	34	83·7	79·4	81·7	+ 1·6	39	+ 13	0	− 6	4	− 1	0·13	3	− 14	2·4	+0·2	28	1027

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 9 Weeks, November 28th, 1915, to January 29th, 1916.

0. SCOTLAND, NORTH ...	53	16	79·7	74·8	77·3	+ 0·5	91	+ 18	217	− 67	56	+ 8	16·45	417	+112	0·6	−0·1	9	1001
Eastern.																			
1. SCOTLAND, EAST ...	57	8	79·7	74·1	77·1	+ 0·9	91	+ 22	284	− 63	46	+10	8·88	226	+ 83	1·1	−0·1	15	1003
2. ENGLAND, N.E.	60	22	81·2	75·7	78·6	+ 1·7	165	+ 85	159	−121	38	+ 5	6·13	157	+ 52	1·4	+0·1	19	1007
3. ENGLAND, EAST ...	58	21	82·0	76·4	79·3	+ 2·7	209	+122	121	−201	40	+ 6	5·96	151	+ 53	1·4	+0·1	17	1011
4. MIDLAND COUNTIES ...	59	18	81·9	75·9	79·0	+ 2·4	209	+112	148	−177	42	+ 8	6·66	171	+ 54	1·2	−0·1	15	1010
5. ENGLAND, S.E.	63	17	82·7	77·4	80·2	+ 2·6	270	+139	71	−165	43	+10	8·99	230	+104	1·3	−0·2	16	1013
Western.																			
6. SCOTLAND, WEST ...	54	21	80·6	75·9	78·3	+ 0·7	127	+ 22	150	− 70	55	+13	12·36	315	+ 52	1·1	0·0	15	1005
7. ENGLAND, N.W.	58	23	81·6	76·8	79·2	+ 1·6	178	+ 72	113	−110	48	+11	9·58	244	+ 76	1·0	−0·1	14	1008
8. ENGLAND, S.W.	58	22	82·7	78·1	80·5	+ 1·9	273	+101	50	−118	48	+ 9	12·04	308	+ 95	1·2	−0·3	15	1011
9. IRELAND, NORTH ...	56	19	81·7	76·4	79·2	+ 1·2	185	+ 59	128	− 68	54	+10	9·16	231	+ 42	1·2	−0·1	16	1004
10. IRELAND, SOUTH ...	59	20	82·8	77·3	80·2	+ 1·2	269	+ 70	75	− 73	51	+ 9	9·26	234	+ 13	1·4	−0·2	18	1008
11. ENGLISH CHANNEL ...	57	30	83·9	80·0	82·0	+ 1·6	402	+132	7	− 45	49	+ 5	10·03	255	+ 71	1·6	−0·3	19	1013

THE YEAR.—Aggregates, &c., for the Period of 4 Weeks, January 2nd to January 29th, 1916.

0. SCOTLAND, NORTH ...	53	30	81·5	76·3	79·0	+ 2·5	83	+ 56	46	− 91	26	+ 5	9·67	245	+110	0·8	0·0	12	1004
Eastern.																			
1. SCOTLAND, EAST ...	57	21	81·9	75·7	78·9	+ 2·8	84	+ 56	79	− 81	18	+ 2	3·04	78	+ 19	1·7	+0·4	23	1009
2. ENGLAND, N.E.	60	27	82·9	77·1	80·1	+ 3·5	124	+ 93	30	−104	10	− 4	0·67	18	− 24	1·7	+0·4	23	1015
3. ENGLAND EAST ...	56	27	82·9	77·2	80·1	+ 3·8	122	+ 89	29	−125	13	− 2	1·49	38	− 2	1·8	+0·2	22	1021
4. MIDLAND COUNTIES ...	58	28	83·1	77·3	80·3	+ 4·0	128	+ 88	25	−127	14	− 1	1·07	28	− 22	1·6	+0·2	20	1020
5. ENGLAND, S.E.	57	27	83·2	78·1	80·8	+ 3·6	136	+ 89	16	−101	16	+ 2	1·26	33	− 19	1·6	0·0	20	1023
Western.																			
6. SCOTLAND, WEST ...	54	30	82·1	77·5	79·9	+ 2·6	101	+ 61	22	− 85	26	+ 7	4·63	118	+ 10	1·3	+0·2	17	1013
7. ENGLAND N.W.	58	28	83·1	78·4	80·9	+ 3·6	127	+ 88	7	−102	20	+ 4	2·64	67	− 2	1·2	0·0	15	1018
8. ENGLAND, S.W.	57	27	83·2	79·1	81·2	+ 3·0	136	+ 69	2	− 82	18	+ 1	2·40	63	− 22	1·4	−0·2	18	1023
9. IRELAND NORTH ...	56	31	83·1	77·8	80·6	+ 2·7	126	+ 73	16	− 77	24	+ 5	2·88	73	− 7	1·3	0·0	17	1013
10. IRELAND, SOUTH ...	59	32	83·9	78·8	81·5	+ 2·7	150	+ 68	2	− 67	23	+ 5	2·25	57	− 36	1·3	−0·3	16	1020
11. ENGLISH CHANNEL ...	56	34	83 8	80·4	82·2	+ 2·3	184	+ 83	0	− 31	19	0	1·20	30	− 41	1·8	−0·2	21	1025
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	m.m.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., February 3rd, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 5. SUNDAY, JANUARY 30TH TO SATURDAY, FEBRUARY 5TH, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE FIFTH WEEK OF 1916.

The period was again of a mild character, but with the exception of Scotland North, with an excess of 2°·4 A. (4°·3 F.), the mean temperature for the week showed a further decrease on the results for previous weeks, the northern districts of England being 1°·9 A. (3°·4 F.) above the average, other districts ranging downward to an excess of 0°·5 A. (0°·9 F.) in the Channel. To a large extent, however, these results are due to the relatively greater mildness of the nights. Afternoon maxima above 283° A. (50° F.) occurred on various days, 286° A. (55° F.) at Plymouth on January 30th, and at Gordon Castle and Foynes next day. On the other hand there were a number of maxima as low as 276° A. (37° F.) to 278° A. (41° F.) on some days. For the time of year night frost was uncommon, and slight in intensity, there being few records below 272° A. (30° F.), but 269° A. (25° F.) was touched at Balmoral. Rainfall was moderate to heavy, differing but slightly from the average in the north-east, and showing a considerable excess in England South-West and Ireland South. The heaviest precipitation occurred on February 3rd, when 25 mm. and upwards was measured at a number of stations, ranging up to 54 mm. at Falmouth. Hail, sleet or snow showers fell in various localities on the 4th. Bright sunshine was fairly equally divided throughout the week in Ireland, while Scotland had its records at the beginning and the end, and nearly the whole of England had the greater part of the total on the closing day, when many stations had from seven to more than eight hours. Thunder and lightning visited Edgbaston and Raunds on the 4th. On most days there was fog in various localities. The sea water was colder than the average by 0°·9 A. (1°·6 F.) off Wick, but elsewhere it was warmer, by as much as 2°·5 A. (4°·5 F.) at the Shipwash, and 3°·6 A. (6°·4 F.) off Eastbourne.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		ENGLAND, E.		NORTH WALES.		ENGLAND, S.W.		IRELAND, S.W.	
	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.
		m/s		m/s		m/s		m/s		m/s
South	7	8·7	7	3·6	6	5·9	6	4·4	6	4·6
North	¼	1·3	0	0·0	1	1·6	1	4·2	1	0·9
West	4	3·2	4	1·6	5	2·1	3	6·0	3	3·0
East	2	4·2	2	1·8	¼	0·6	3	1·7	4	1·0
Calm	0	—	0	—	0	—	¼	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH AVERAGE.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year ...	Warmth ...	Unusual	Unusual	Unusual	Moderate	Unusual	Moderate	Unusual	Unusual	Moderate	Unusual	Unusual	Moderate
	Rainfall ...	Moderate	Moderate	Moderate	Moderate	Heavy	Heavy	Moderate	Heavy	Heavy	Heavy	Heavy	Heavy
	Sunshine ...	Abundant	Abundant	Moderate	Very scanty	Scanty	Moderate	Moderate	Moderate	Scanty	Very abundant	Moderate	Moderate

II.—THE WINTER SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

WINTER. 10 weeks from Nov. 28th, 1915.	Warmth ...	5, 2, 3	6, 1, 3	6, 3, 1	6, 4, 0	7, 2, 1	6, 4, 0	6, 2, 2	6, 3, 1	6, 3, 1	6, 2, 2	6, 3, 1	7, 2, 1
	Rainfall ...	5, 5, 0	5, 4, 1	4, 3, 3	7, 1, 2	5, 3, 2	6, 2, 2	5, 4, 1	7, 1, 2	7, 1, 2	5, 4, 1	3, 4, 3	6, 1, 3
	Sunshine ...	2, 7, 1	3, 5, 2	3, 6, 1	0, 7, 3	0, 7, 3	1, 6, 3	4, 4, 2	3, 6, 1	0, 5, 5	3, 5, 2	1, 5, 4	0, 4, 6

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914. Increment of 1° A. = increment of $\frac{9}{5}$° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(7320—19.) Wt. 160—610. 450. 2/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880 GROUND TEMPERATURE, 1906.] Values printed in *Italic Type* are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Difference from Average.	No. of Rain-Days.	Rainfall in the Week.		Difference from Average.	Daily Mean.	Difference from Average	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts	Lowest Reading.	Mean	Difference from Average.	Mean.	Difference from Average.	
0. SCOTLAND, N.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F	°F.	°F.	°F.	
a, Islands ..	*p Baltasound* *31*																						*Baltasound.*
	a Lerwick 54	48	3rd	38	3rd	45·6	40·1	42·9	+ 4·3	7	0·64	16	—	2·7	+ 1·3	35	•	•	•	•	•	•	Deerness.
	a Stornoway 51	48	31st	35	4th	46·0	37·6	41·8	+ 2·8	6	1·88	47	+ 19	1·7	+ 0·2	22	•	•	•	•	•	•	Stornoway.
	a Castlebay, Barra Isd. .. *37*	*48*	*30–1, 3*	*38*	*4th*	*47·0*	*41·3*	*44·2*	+ 2·8	*6*	*1·54*	*39*	—	*1·6*	—	*20*							*Castlebay.*
b, Mainland.	*a* Wick 81	47	1st	35	3rd	44·9	37·4	41·2	+ 3·5	2	0·03	1	- 13	•	•	•	•	•	•	•	•	•	
	p Strathpeffer 200													•	•	•	•	•	•	•	•	•	Strathpeffer.
	p Glencarron 500	50	1st	34	4th	48·1	37·6	42·9	+ 6·1	6	2·01	51	- 1	•	•	•	•	•	•	•	•	•	
	p Fort Augustus.. .. 68	50	30, 31, 1	34	2, 3	48·3	37·4	42·9	+ 5·3	4	1·54	39	+ 10	1·7	+ 0·7	21	•	•	•	•	•	•	Fort Augustus.
	p Fort William .. 171	49	1st	35	2, 5	47·0	37·6	42·3	+ 3·2	5	3·48	101	+ 51	•	•	•	•	•	•	•	•	•	
1. SCOTLAND, E.																							
	p Gordon Castle 101	55	31st	33	2, 5	49·7	35·0	42·4	+ 4·2	2	0·03	1	- 12	3·3	—	41	5	20	37·2	+2·6	39·2	+1·8	Grathes.
	a Nairn 82	50	31, 1	32	3rd	46·3	35·3	40·8	+ 3·5	3	0·24	6	- 5	*3·3*	—	*41*	•	•	•	•	•	•	*Gordon Castle.*
	a Aberdeen 46	49	31, 5	32	3rd	46·6	36·9	41·8	+ 4·0	3	0·13	3	- 10	4·2		53	•	•	•	•	40·6	+1·7	Nairn.
	a Balmoral 930	49	1st	25	3rd	45·3	31·4	38·4	+ 4·5	4	1·14	29	+ 12	3·1	+ 1·0	39	•	•	•	•	•	•	Aberdeen.
	p Crieff 432	49	31st	20	3rd	46·3	34·0	40·2	+ 2·8	4	1·35	34	+ 12	•	•	•	5	22	•	•	•	•	Balmoral.
														2·0	—	25	•	•	•	•	•	•	Balruddery.
	a Leith 18	51	31, 5	35	3, 5	47·1	33·9	43·0	+ 3·9	1	0·24	6	- 4	•	•	•	•	•	•	•	•	•	
	a West Linton 769	48	5th	27	3rd	44·4	34·0	39·2	+ 4·3	4	0·74	19	—	*1·4*	—	*17*	5	18	•	•	•	•	*West Linton.*
	p Marchmont 498	49	30th	29	3rd	45·1	34·1	39·6	+ 3·1	5	0·52	13	0	1·8	- 0·1	22	4	25	•	•	•	•	Marchmont.
	a Edinburgh *441*	*50*	*31st*	*34*	*3rd*	*?45·7*	*38·4*	*42·1*	—	*3*	*0·34*	*9*	—	2·2	—	27	2	27	•	•	•	•	Edinburgh.
6. *a*, SCOTLAND, W.																							
	a Poltalloch 132	49	30th	31	30, 31, 3	45·7	36·1	40·9	+ 2·2	5	2·39	61	+ 36	•	•	•	•	•	•	•	•	•	
	p Glasgow Observatory 180	49	30, 31	36	5th	46·7	38·7	42·7	+ 4·3	4	0·70	18	0	1·3	+ 0·2	16	0	31	•	•	•	•	Glasgow.
	p Rothesay 170	48	31st	35	4th	46·3	37·3	41·8	+ 2·4	6	1·25	32	+ 8	*2·3*	—	*28*	5	26	41·4	•	44·0	+2·2	*Rothesay.*
	a Kilmarnock 90	50	5th	35	30, 3, 5	47·9	37·4	42·7	+ 3·6	6	0·80	20	—	*1·8*	—	*22*	•	•	•	•	•	•	*Kilmarnock.*
	a Colmonell 170	50	31, 5	34	30, 31	48·3	36·4	42·4	+ 3·7	4	1·71	43	+ 19	•	•	•	4	27	•	•	•	•	
	a Dumfries 160	49	30th	30	5th	46·7	37·1	41·9	+ 3·5	6	0·89	23	+ 4	*1·7*	—	*20*	3	25	42·1	•	42·9	•	*Dumfries.*
	Eskdalemuir *799*	*48*	*5th*	*28*	*3rd*	*43·9*	*34·9*	*39·4*	—	*6*	*2·30*	*59*	—	*2·0*	—	*24*	•	•	•	•	•	•	*Eskdalemuir.*
	p Cally, Gatehouse .. 120	50	30th	28	5th	47·0	36·4	41·7	+ 3·5	5	1·40	36	+ 11	•	•	•	•	•	•	•	•	•	
b, I. OF MAN.	*p* Douglas 277	49	31st	37	2, 5	47·3	39·9	43·6	+ 3·2	5	0·86	17	- 3	2·0	0·0	23	0	31	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
	a Alnwick Castle .. 210	52	30th	31	5th	48·1	36·0	42·1	+ 4·1	4	0·09	2	- 10	2·0	—	24	4	24	40·0	+5·8	42·1	+3·5	Cockle Park.
	a Tynemouth 71	50	31, 5	35	5th	46·9	40·7	43·8	+ 5·3	3	0·16	4	- 5	•	•	•	•	•	•	•	•	•	*Tynemouth.*
	p Durham 336	50	30, 31	30	3rd	47·2	36·0	41·6	+ 4·3	4	0·23	6	- 3	1·2	- 0·7	14	2	25	•	•	•	•	Durham.
a, North ..	*p* Rounton 249	50	31st	31	5th	46·1	36·9	41·5	+ 4·6	6	0·76	19	+ 9	•	•	•	4	25	41·5	•	•	•	Rounton.
	a West Witton *605*	*49*	*31, 5*	*31*	*5th*	*45·4*	*33·4*	*41·9*	—	*5*	*0·97*	*25*	—	•	•	•	2	24	41·6	•	41·9	•	*West Witton.*
	p Scarborough 100	50	30–1, 5	34	2nd	48·4	39·7	44·1	+ 5·6	3	0·34	9	- 2	1·8	—	21	•	•	•	•	43·0†	•	Scarborough
	p York 56	51	31st	28	5th	47·9	37·3	42·6	+ 4·5	5	0·45	11	+ 1	0·5	- 1·0	6	•	•	42·6	+5·8	44·0	+3·4	York.
b, South ..	*a* Spurn Head 26	48	30, 4, 5	34	2nd	45·6	39·4	42·5	+ 3·8	3	0·52	13	+ 6	*0·8*	—	*9*	•	•	•	•	•	•	*Spurn Head.*
	a Lincoln 58	54	5th	31	2nd	48·6	37·9	43·3	+ 5·9	3	0·43	11	+ 2	•	•	•	•	•	41·7	+6·0	44·1	+4·4	Lincoln.
	a Fulbeck 180	51	30, 5	31	2nd	47·4	37·0	42·2	+ 4·4	4	0·43	11	+ 1	1·9	—	22	?2	26	42·4	+5·5	44·8	+3·0	Rauceby.
														1·4	—	16	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																							
	p Cromer 196	50	4th	29	2nd	45·0	36·4	40·7	+ 3·8	4	0·37	9	—	0·7	—	8	•	•	•	•	•	•	Cromer.
	p Little Massingham .. 280	48	3, 4	30	1, 2	44·4	34·4	39·4	+ 2·1	5	0·36	9	- 2	0·8	- 1·1	9	1	23	•	•	•	•	Lit. Massingham.
a, North ..	*a* Yarmouth 13	48	4th	33	3rd	45·7	38·0	40·9	+ 3·4	4	0·28	7	- 2	0·5	—	6	•	•	43·0	+6·9	46·0	+4·7	Yarmouth.
	a Norwich 93	50	5th	29	2nd	44·9	37·4	41·2	+ 3·9	5	0·45	11	—	*0·7*	—	*8*	2	23	41·5	•	•	•	*Norwich.*
	a Geldeston 37	50	4th	32	2nd	45·6	36·1	41·9	+ 3·8	5	0·54	9	0	*0·8*	- 1·3	9	•	•	•	•	•	•	Geldeston.
b, South ..	*p* Cambridge 41	51	4th	28	2nd	47·1	34·1	40·6	+ 2·7	3	0·22	6	- 2	1·7	- 0·3	20	2	26	42·0	+5·7	45·0	+3·7	Cambridge.
	a Clacton-on-Sea .. 54	48	5th	31	2nd	44·6	39·1	41·9	+ 3·5	3	0·21	5	—	1·0	—	11	1	29	43·0	+4·7	45·4	+2·4	Clacton.
	a Rothamsted 424	50	5th	28	2nd	45·1	35·4	40·3	+ 3·0	4	0·74	19	+ 7	1·8	- 0·1	20	4	22	41·8	•	•	•	Rothamsted.
	p Tottenham 51	52	30th	32	2nd	47·5	36·9	43·6	+ 4·8	3	0·41	10	—	1·1	—	12	1	27	•	•	46·0	+3·6	Tottenham.
4. MIDLAND COUNTIES.																							
a North ..	*a* Harrogate 479	51	31st	30	5th	46·0	37·6	41·8	+ 5·1	4	0·58	15	+ 2	1·7	—	20	1	29	41·9	+5·1	43·0	+3·8	Harrogate.
	p Buxton *987*	*47*	*31st*	*32*	*4th*	*43·9*	*36·3*	*40·1*	+ 4·8	*5*	*1·82*	*46*	+ 20	*1·2*	°	*14*	3	30	40·2	+4·5	42·3	+1·3	*Buxton.*
														1·1	—	13	1	29	41·9	+6·0	43·4	+2·9	Sheffield.
	a Bawtry 65	53	5th	31	5th	48·0	36·7	42·4	+ 4·8	3	0·41	10	0	1·1	- 0·5	13	3	25	42·2	•	43·6	•	Worksop.
	a Nottingham 82	51	30, 3	28	1st	47·9	34·9	41·4	+ 3·7	3	0·51	13	+ 3	1·2	—	14	4	25	40·1	+5·1	42·7	+4·1	Nottingham.
b, East ..	*p* Birmingham, Edgbn. 535	51	30th	32	1st	46·0	36·4	41·2	+ 3·5	3	0·63	16	+ 5	2·2	—	26	3	22	42·8	+4·7	45·7	+2·3	Birmingham.
	a Raunds 203	51	30, 5	29	2nd	47·0	34·9	41·0	+ 3·8	3	0·55	14	—	*2·1*	—	*24*	5	23	43·2	•	46·0	•	*Raunds.*
	p Oxford 208	50	3rd	29	1st	46·6	36·9	41·8	+ 3·1	4	0·75	19	+ 9	1·7	- 0·2	19	3	24	•	•	•	•	Oxford.
	a Cheadle 646	49	5th	32	5th	45·3	36·1	40·7	+ 3·8	4	0·58	15	+ 2	•	•	•	2	30	•	•	•	•	Cheadle.
	p Shrewsbury 191	54	30th	31	31st	48·7	37·0	42·9	+ 4·3	3	0·90	23	—	•	•	•	2	27	•	•	•	•	Shrewsbury.
c, West ..	*a* Hereford§ 291	52	30th	32	5th	47·4	38·0	42·7	+ 4·2	3	1·26	32	+ 19	*2·6*	—	*30*	2	26	42·3	•	44·2	•	*Malvern.*§
	a Cirencester 446													•	•	•	•	•	•	•	•	•	Cirencester.
	a Bath 66	53	5th	37	5th	49·4	40·9	45·2	+ 5·6	3	0·94	24	+ 11	1·7	—	19	•	•	44·5	+5·7	46·2	+2·9	Bath.
5. ENGLAND, S.E.																							
														2·2	—	24	3	29	44·4	+6·6	46·2	+3·3	Worthing.
	a Marlborough 424	49	5th	29	1st	45·6	36·9	41·3	+ 3·8	4	1·10	28	+ 14	1·4	- 0·3	18	2	22	43·9	•	46·1	•	Marlborough.
	a Margate 53	50	4th	31	2nd	45·6	38·6	42·1	+ 3·0	3	*0·27*	7	- 2	0·6	—	7	1	27	43·6	+5·5	45·8	+4·7	Margate.
	a Wisley, Surrey .. 150	51	5th	30	2nd	46·4	37·3	41·9	+ 2·5	3	1·05	27	—	1·6	—	18	4	19	43·4	+6·5	45·4	+3·9	Wisley.
	p Salisbury (Wilton) .. 180	50	3rd	30	1st	47·1	38·7	42·9	+ 4·6	5	1·05	42	+ 27	•	•	•	1	23	44·4	•	•	•	Salisbury.
	a Tunbridge Wells .. 354	50	5th	28	2nd	45·3	36·4	40·9	+ 3·1	4	1·02	26	+ 12	1·6	- 0·2	18	2	21	43·4	+7·0	45·5	•	Tunbridge Wells.
	a Dungeness 21	49	4, 5	31	2nd	45·9	39·9	42·9	+ 3·5	2	0·29	7	- 3	•	•	•	•	•	•	•	•	•	Littlestone.
	p Hastings.. 178	50	4th	30	2nd	46·0	38·4	42·2	+ 2·5	5	0·29	7	- 6	1·7	- 0·6	19	2	24	43·7	•	45·8	•	Hastings.
	p Southampton 64	51	5th	32	1st	46·9	39·0	43·0	+ 2·7	5	1·06	40	+ 26	1·9	- 0·2	21	2	26	•	•	•	•	Southampton.
	a Ventnor 59	51	4th	37	1st	48·0	41·1	44·6	+ 3·2	5	0·59	15	+ 1	2·3	0·0	26	•	•	•	•	•	•	Ventnor.
LONDON.	*p* Kew 18	50	3rd	32	2nd	46·2	32·6	42·9	+ 3·9	3	0·63	*14*	+ 5	1·6	0·0	18	2	23	43·3	+6·6	45·9	+3·5	Kew.
	a Westminster *27*	*51*	*3–5*	*32*	*2nd*	*47·4*	*39·3*	*43·7*	+ 4·5	*3*	*0·47*	*12*	+ 3	*1·3*	+ 0·4	*15*	1	30	•	•	•	•	*Westminster.*
	a Greenwich *155*	*50*	*4th*	*29*	*2nd*	*45·9*	*37·7*	*41·8*	+ 3·0	*3*	*0·81*	*21*	+ 12	*1·5*	- 0·2	*17*	2	29	•	•	•	•	*Greenwich.*
	a Hampstead *450*	*50*	*5th*	*30*	*2nd*	*45·1*	*36·5*	*40·8*	—	*3*	*0·49*	*12*	—	*1·5*	—	*17*	3	27	•	•	•	•	*Hampstead.*
	a Camden Square .. *110*	*51*	*4th*	*31*	*2nd*	*47·1*	*39·4*	*43·3*	—	*3*	*0·46*	*12*	—	*1·3*	—	*15*	1	27	•	•	•	•	*Camden Square.*
7. *a*, ENGLAND, N.W.																							
														1·3	—	15	•	•	•	•	•	•	Hoylake.
	p Aspatria 250	50	30th	34	3rd	47·0	38·1	42·6	+ 4·9	5	1·23	31	+ 16	0·8	—	10	0	31	43·1	•	44·1	•	Aspatria.
	p Newton Rigg 559	47	30, 31	31	3, 5	45·4	36·6	41·0	+ 4·4	6	1·17	30	+ 11	1·2	- 0·5	14	5	24	41·9	+5·1	42·2	+2·4	Newton Rigg.
	p Stonyhurst 375	49	31st	34	5th	46·4	38·9	42·7	+ 4·8	6	1·08	27	+ 5	0·8	- 0·8	9	1	27	•	•	•	•	Stonyhurst.
	p Blackpool 66	51	31st	37	1, 2	47·1	40·0	43·6	+ 5·0	6	0·63	16	+ 2	1·0	- 0·7	12	1	26	44·2	•	45·8	•	Blackpool.
	a Southport *37*	*52*	*5th*	*33*	*5th*	*47·1*	*39·1*	*43·1*	+ 4·2	*4*	*0·68*	*17*	+ 3	*1·0*	- 0·7	*12*	2	24	41·7	+6·4	43·1	+3·8	*Southport.*
	a Liverpool (Bidston) .. 188	53	5th	35	5th	47·6	40·4	44·0	+ 4·2	2	0·17	4	- 8	*1·3*	—	*15*	•	•	•	•	•	•	*Liverpool.*
	a Hawarden Bridge .. 22	54	5th	34	5th	48·9	39·0	44·0	+ 3·7	4	0·33	8	- 1	*0·2*	—	2	0	32	42·7	+6·6	45·3	+3·7	*Manchester (City)*
	p Manchester (Whit. Pk.) 125	50	30th	33	5th	47·4	38·7	43·1	+ 3·9	5	1·00	25	+ 13	*0·7*	- 0·1	*8*	•	•	•	•	•	•	" (Whit. Park)
b NORTH WALES.																							
	p Llandudno 71	52	30th	37	4, 5	48·3	40·1	44·2	+ 2·9	5	1·17	30	+ 16	1·8	- 0·2	21	•	•	•	•	•	•	Llandudno
	a Holyhead 15	52	30th	39	3rd	48·4	43·0	45·7	+ 4·2	6	1·30	33	+ 17	*1·4*	—	*16*	•	•	•	•	•	•	*Holyhead.*
	p Bettws-y-Coed .. 118	51	30th	32	5th	48·1	38·6	43·4	+ 3·0	5	1·89	48	—	1·3	—	15	•	•	44·3	+6·5	46·0	+3·5	Bettws-y-Coed.
														1·2	—	11	•	•	•	•	•	•	Derdovey.

† At 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Difference from Aver'ge	No. of Rain-Days.	Rainfall in the week.		Difference from Average.	Daily Mean	Difference from Average.	Percentage of possible duration.	Grass Min.		Earth 1 ft		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts.	Lowest Reading.	Mean.	Difference from average.	Mean.	Difference from average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES.														1·2	—	14	*	*	*	*	*	*	
a Llangammarch Wells	550	51	30th	32	5th	45·5	37·1	41·3	+ 3·5	5	2·11	54	—	1·2	—	14	2	25	42·6	+4·5	46·0	+2·6	Aberystwyth.
a Pembroke	149	49	30, 5	39	4, 5	47·6	43·4	45·5	+ 3·2	5	1·69	43	+ 25	1·0	- 1·1	11	*	*	*	*	*	*	Llangammarch.
p Cardiff	202	49	30th	34	5th	47·3	39·0	43·2	+ 3·6	5	1·08	27	+ 8	*1·5*	—	*17*	1	29	44·5	+6·4	46·1	+4·0	Pembroke. *Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	53	5th	38	5th	49·3	41·7	45·5	+ 5·8	4	1·00	25	+ 10	*1·4*	—	*16*	0	39	*	*	*	*	*Clifton.*
a Shaftesbury	722	49	3rd	34	5th	45·4	37·7	41·6	+ 3·8	4	1·25	32	+ 17	*	*	*	*	*	43·5	*	45·5	*	Shaftesbury.
a Arlington	613	49	30, 31, 5	33	5th	46·9	37·6	42·3	+ 3·1	4	1·61	41	+ 16	*	*	*	*	*	*	*	*	*	Arlington.
a Newquay	*190*	*51*	*5th*	*38*	*4, 5*	*48·6*	*39·4*	*44·0*	+ 0·7	*4*	*1·56*	*40*	+ *23*	1·6	- 0·5	18	0	32	45·9	*	48·1	*	Newquay.
a Cullompton	202	52	5th	32	5th	47·7	38·9	43·3	+ 3·4	4	1·40	36	+ 18	1·5	- 0·4	17	1	26	45·3	*	*	*	Cullompton.
a Portland Bill ..	19	50	3, 5	40	2nd	48·0	42·9	45·5	+ 3·9	4	0·80	20	—	*1·8*	—	*20*	*	*	*	*	*	*	*Weymouth.*
p Plymouth	116	55	30th	38	4, 5	49·7	41·4	45·6	+ 3·6	4	1·59	40	+ 22	1·7	- 0·4	19	*	*	45·8	+5·6	48·0	*	Plymouth.
a Falmouth	167	52	30th	36	4, 5	48·7	41·0	44·9	+ 1·8	4	2·73	69	+ 46	2·0	- 0·2	22	1	28	46·9	*	48·6	*	Falmouth.
9. IRELAND. N.																							
a, West .. { *a* Malin Head	208	52	30th	36	4, 5	47·7	38·4	43·1	+ 2·3	4	0·87	22	+ 8	*3·7*	—	*45*	*	*	*	*	*	*	*Malin Head.*
a Blacksod Point	?	50	5th	37	4, 5	47·9	39·3	43·6	+ 1·1	6	1·35	34	+ 9	*	*	*	*	*	*	*	*	*	*
p Markree Castle ..	122	52	31, 3	28	30th	50·0	34·6	42·3	+ 2·8	5	1·20	30	+ 10	*3·1*	+ *1·4*	*36*	4	25	43·5	*	45·7	*	Markree Castle.
a Birr Castle	175	51	30-1, 5	31	5th	49·6	36·3	43·0	+ 3·1	4	0·91	23	+ 9	*3·1*	+ *1·1*	*36*	*	*	*	*	*	*	*Birr Castle.*
b, East .. { *p* Armagh	196	49	30th	32	5th	48·0	36·7	42·4	+ 2·7	5	0·91	23	+ 9	3·8	+ 2·0	44	2	29	43·0	+3·5	45·0	+2·1	Armagh.
a Donaghadee ..	101	51	5th	33	5th	47·7	37·3	42·5	+ 2·1	4	0·47	12	- 3	*	*	*	*	*	*	*	*	*	*
10. IRELAND, S.																							
a, East .. { *p* Dublin, City	47	52	30, 31	35	5th	50·3	41·0	45·7	+ 3·9	4	0·57	14	+ 1	2·3	+ 0·1	27	3	26	45·3	+5·4	46·3	+3·2	Trinity Coll.
a Kilkenny	212	52	5th	29	4th	49·6	38·1	43·9	+ 3·5	6	1·06	27	+ 9	*	*	*	3	25	*	*	*	*	Phœnix Park.
a Waterford	20	51	31st	30	5th	49·3	40·0	44·7	+ 3·5	5	1·44	37	+ 15	*	*	*	0	31	*	*	*	*	Dublin City.
a Seskin, Carrick-on-Suir	*541*	*51*	*30, 5*	*32*	*5th*	*47·7*	*38·3*	*43·0*	—	*4*	*2·16*	*55*	—	*2·0*	—	*23*	2	25	*	*	*	*	*Seskin.*
b, West .. { *a* Birr Castle	175	51	30-1, 5	31	5th	49·6	36·3	43·0	+ 3·1	4	0·91	23	+ 9	3·1	+ 1·1	36	*	*	*	*	*	*	Birr Castle.
a Foynes	50	55	31st	32	30th	51·3	37·1	44·2	+ 2·2	6	1·22	31	+ 11	*	*	*	*	*	*	*	*	*	*
a Cahir	199	51	5th	27	4th	48·7	37·3	43·0	+ 1·9	5	1·08	27	—	*	*	*	*	*	*	*	*	*	*
a Killarney	174	54	5th	33	30th	51·6	38·1	44·9	+ 2·5	7	2·88	73	+ 39	*	*	*	*	*	*	*	*	*	*
a Valencia	30	52	31, 1, 5	32	30, 31	50·3	37·7	44·0	- 0·3	7	2·18	55	+ 23	1·4	- 0·7	16	*	*	*	*	*	*	Valencia.
a Roche's Point ..	32	54	30th	37	5th	49·6	42·7	46·2	+ 2·9	6	1·32	34	+ 9	*	*	*	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	53	30th	38	4th	49·3	43·1	46·2	+ 0·9	4	1·10	28	+ 11	2·4	0·0	27	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	53	3rd	33	1st	48·1	40·0	44·1	+ 1·5	4	0·71	18	+ 1	2·0	- 0·7	22	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	52	5th	41	2nd	48·9	42·7	45·8	+ 2·4	4	0·74	19	+ 2	2·1	- 0·2	23	0	38	46·1	+4·6	48·5	+3·1	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, February 5th, 1916.

DISTRICT AND STATION.	Height.			Distribution of Wind.								Extreme Velocities.					
	Above Mean Sea Level.	Above Ground.	Above Building.	Gales, force 8 or more.		High Winds, forces 6 and 7.		Fresh or Moderate Winds, forces 4 and 5.	Light Winds, forces 2 and 3.	Calms and Light Airs, forces 0 and 1.	No Record.	Highest Hourly Wind.			Highest Gust with Date and Time.		
				Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Velocity.		Date and Hour.			
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.		m/s.	d.	h. m.
1. SCOTLAND, E.																	
Dyce	220	75	‡15**	—	—	—	—	40	99	25	4	SE. by E.	10	3rd 24h.	24	3rd	22 . 56
Aberdeen*	153	105 / 37	‖	—	—	3rd	3	60	91	14	0	SE. by S.	11	3rd 24h	22	3rd	22 . 28
Edinburgh	485	39	31	5th	2	1 to 5	20	61	79	6	0	S. by W.	20	5th 24h.	31	5th	23 . 37
6. SCOTLAND, W.																	
Eskdalemuir	850	50	22	5th	2	30, 2 to 5	23	58	65	20	0	SSW.	17	5th 22h.	26	3rd	12 . 34
Paisley	188	81	52	—	—	3 to 5	15	28	90	35	0	SSW.	14	3rd 17h.	26	3rd	17 . 51
2. ENGLAND, N.E.																	
Alnwick Castle	340	70	17	—	—	—	—	22	41	105	0	S. by W.	11	3rd 14h.	18	3rd	18 . 44
South Shields	72	61	12	—	—	3rd	4	25	83	56	0	S.	12	3rd 23h.	21	3rd	21 . 10
Spurn Head	66	40	‡	3rd	3	3, 4	32	59	44	2	28	—	18	3rd 23h.	25	4th	14 . 48
3. ENGLAND, E.																	
Gorleston	52	42	‡	3, 4	9	3, 4	26	33	77	23	0	—	18	4th 2h.	25	4th	1 . 56
Shoeburyness	103	90	‡	3, 4	8	3, 4	26	38	61	35	0	—	20	4th 6h.	26	3rd	20 . 7
4. MIDLAND COUNTIES																	
Benson	270	84	‡	3rd	2	3, 4	24	35	56	51	0	S.	17	3rd 22h.	25	3rd	22 . 11
5. ENGLAND, S.E.																	
Dover	271	40	‡	—	—	2 to 4	53	21	34	60	0	—	17	4th 7h.	26	4th	5 . 16
Warlingham	642	33	‡	—	—	3, 4	18	32	55	63	0	—	14	3rd 16h.	27	3rd	17 . 55
Brighton	261	53	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Kew	82	65 / 22	6 ‖	—	—	3, 4	10	37	60	61	0	S.	11	4th 1h.	23	3rd	23 . 56
South Kensington ..	123	92	30	—	—	—	—	31	54	83	0	S. by W.	8	4th 5h.	18	4th	5 . 13
7. ENGLAND, N.W.																	
Carnforth	246	56	23	—	—	3rd	1	27	76	62	2	SE.	11	3rd 20h.	20	3rd	21 . 38
Southport	80	62	48	—	—	3rd	9	50	109	0	0	SSE.	15	3rd 19h.	24	3rd	18 . 59
Holyhead*	60	40	‡	3rd	1	30, 2 to 5	29	81	40	0	17	SSE.	18	3rd 19h.	25	3rd	18 . 56
8. ENGLAND, S.W.																	
Pendennis Castle§ ..	256	65	24	3, 5	12	2 to 5	28	58	57	13	0	S. by W.	23	3rd 17h.	33	3rd	15 . 53
Plymouth	185	88	2	3rd	8	2 to 5	17	52	59	32	0	—	23	3rd 19h.	32	3rd	19 . 21
10. IRELAND, S.																	
Quilty	100	40	‡	—	0	3, 5	20	87	58	3	0	—	16	5th 23h.	22	5th	24 . 5
Weaver Pt.	160	30	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11. ENGLISH CHANNEL.																	
Scilly*	150	32 / 19	‡	—	—	3 to 5	14	72	61	21	0	S.	15	3rd 15h.	24	4th	18 . 58

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees

‖ Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew), and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the averages for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the difference of the mean temperature from the average are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

FIFTH WEEK—January 30th to February 5th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L.
			Means of				Accumulated Number of Day-Degrees.												
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (25 Yrs.)	Above 42°	Difference from Av. (25 Yrs.)	Below 42°	Difference from Av. (25 Yrs.)	Number of Rain-Days.	Difference from Average. (25 Years.)	Total Fall.		Difference from Average. (25 Years.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	50	34	81·2	76·3	78·7	+ 2·4	19	+ 12	11	− 26	5	− 1	1·68	43	+ 7	2·0	+0·9	26	1003
Eastern.																			
1. SCOTLAND, EAST ...	55	25	81·0	74·7	77·8	+ 1·6	12	+ 3	28	− 13	3	− 1	0·55	14	0	2·8	+0·8	34	1006
2. ENGLAND, N.E.	54	28	81·6	76·3	78·9	+ 1·9	21	+ 11	11	− 20	4	− 1	0·38	10	+ 1	1·5	−0·6	17	1012
3. ENGLAND, EAST ...	52	28	80·4	75·8	78·1	+ 1·3	9	− 1	20	− 14	4	0	0 38	9	− 1	1·1	−1·3	12	1016
4. MIDLAND COUNTIES ...	54	28	81·4	75·7	78·6	+ 1·7	22	+ 10	14	− 20	3	− 1	0 71	18	+ 5	1·5	−0·4	18	1014
5. ENGLAND, S.E.	51	28	80·9	76·7	78·8	+ 1·1	18	+ 4	10	− 15	4	− 1	0·84	21	+ 8	1·7	−0·3	19	1017
Western.																			
6. SCOTLAND, WEST ...	50	28	81·3	76·0	78·7	+ 1·3	21	+ 9	13	− 14	5	+ 1	1·23	31	+ 5	1·7	0·0	20	1009
7. ENGLAND, N.W.	54	31	81·6	77·1	79·3	+ 1·9	21	+ 10	8	− 17	5	0	1·00	25	+ 7	1·2	−0·5	14	1011
8. ENGLAND, S.W.	55	32	81·7	77·5	79·6	+ 1·3	21	+ 4	5	− 15	4	− 1	1 53	39	+ 18	1·5	−0·6	16	1013
9. IRELAND, NORTH ...	52	28	82·2	75·8	79·1	+ 1·3	26	+ 12	14	− 9	5	0	0·95	24	+ 4	3·5	+1·7	40	1005
10. IRELAND, SOUTH ...	55	27	83·0	76·7	79·9	+ 1·1	31	+ 10	9	− 8	6	+ 2	1·41	36	+ 15	2·3	+0·3	26	1009
11. ENGLISH CHANNEL ...	53	33	82·3	78·5	80·4	+ 0·5	24	0	0	− 8	4	− 1	0·85	22	+ 5	2·2	−0·3	24	1015

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 10 Weeks, November 28th, 1915, to February 5th, 1916.

0. SCOTLAND, NORTH ...	53	16	79·8	75·0	77·5	+ 0·8	110	+ 30	228	− 93	61	+ 7	18·13	460	+119	0·8	0·0	11	1002
Eastern.																			
1. SCOTLAND, EAST ...	57	8	79·9	74·2	77·1	+ 0·9	103	+ 25	312	− 76	49	+ 9	9·43	240	+ 83	1·2	0·0	18	1004
2. ENGLAND, N.E.	60	22	81·2	75·8	78·6	+ 1·7	186	+ 96	170	−141	42	+ 4	6·51	167	+ 53	1·4	0·0	19	1007
3. ENGLAND, EAST ...	58	21	81·8	76·4	79·2	+ 2·6	218	+121	141	−215	44	+ 6	6·34	160	+ 52	1·3	−0·1	17	1012
4. MIDLAND COUNTIES ...	59	18	81·9	75·8	79·0	+ 2·4	231	+122	162	−197	45	+ 7	7·37	189	+ 59	1·2	−0·1	16	1010
5. ENGLAND, S.E.	63	17	82·5	77·4	80·1	+ 2·4	288	+143	81	−180	47	+ 9	9·83	251	+112	1·3	−0·3	17	1013
Western.																			
6. SCOTLAND, WEST ...	54	21	80·6	75·9	78·3	+ 0·7	148	+ 31	163	− 84	60	+14	13·59	346	+ 57	1·1	0·0	15	1006
7. ENGLAND, N.W.	58	23	81·6	76·8	79·2	+ 1·6	199	+ 82	121	−127	53	+11	10·55	268	+ 82	1·0	−0·2	14	1008
8. ENGLAND, S.W.	58	22	82·6	78·0	80·4	+ 1·9	294	+105	55	−133	52	+ 8	13·57	347	+113	1·2	−0·4	15	1012
9. IRELAND, NORTH ...	56	19	81·8	76·4	79·2	+ 1·2	211	+ 71	142	− 77	59	+10	10·11	255	+ 46	1·4	+0·1	19	1004
10. IRELAND, SOUTH ...	59	20	82·8	77·2	80·1	+ 1·1	300	+ 80	84	− 81	57	+11	10·67	270	+ 28	1·5	−0·1	19	1008
11. ENGLISH CHANNEL ...	57	30	83·7	79·8	81·8	+ 1·4	426	+132	7	− 53	53	+ 4	10·77	274	+ 73	1·6	−0·4	19	1014

THE YEAR.—Aggregates, &c., for the Period of 5 Weeks, January 2nd to February 5th, 1916.

0. SCOTLAND, NORTH ...	53	30	81·5	76·3	79·0	+ 2·5	102	+ 68	57	−117	31	+ 4	11·35	288	+117	1·1	+0·2	15	1004
Eastern.																			
1. SCOTLAND, EAST ...	57	21	81·7	75·5	78·7	+ 2·6	96	+ 59	107	− 94	21	+ 1	3 59	92	+ 19	1·9	+0·5	26	1008
2. ENGLAND, N.E.	60	27	82·6	76·9	79·9	+ 3·2	145	+104	41	−124	14	− 5	1·05	28	− 23	1·7	+0·3	22	1015
3. ENGLAND EAST ...	56	27	82·4	76·9	79·7	+ 3·3	131	+ 88	49	−139	17	− 2	1·87	47	− 3	1 6	−0·2	20	1020
4. MIDLAND COUNTIES ...	58	28	82·8	77·0	80·0	+ 3·6	150	+ 98	39	−147	17	− 2	1·78	46	− 17	1·5	0·0	19	1018
5. ENGLAND, S.E.	57	27	82·7	77·8	80·4	+ 3·1	154	+ 93	26	−116	20	+ 1	2·10	54	− 11	1·6	0·0	19	1022
Western.																			
6. SCOTLAND, WEST ...	54	28	82·0	77·2	79·7	+ 2·4	122	+ 70	35	− 99	31	+ 8	5·86	149	+ 15	1·3	+0·1	17	1012
7. ENGLAND N.W.	58	28	82·8	78·2	80·5	+ 3·2	148	+ 98	15	−119	25	+ 4	3·61	91	+ 4	1·2	−0·1	15	1017
8. ENGLAND, S.W.	57	27	82 9	78·8	80·9	+ 2·7	157	+ 73	7	− 97	22	0	3·93	102	− 4	1·4	−0·3	17	1021
9. IRELAND NORTH ...	56	28	82·9	77·4	80·3	+ 2·5	152	+ 85	30	− 86	29	+ 5	3·83	97	− 3	1·8	+0·4	22	1012
10. IRELAND, SOUTH ...	59	27	83·7	78·4	81·1	+ 2·3	181	+ 78	11	− 75	29	+ 7	3·66	93	− 21	1·5	−0·2	19	1018
11. ENGLISH CHANNEL ...	56	33	83 5	80·0	81·8	+ 1·9	208	+ 83	0	− 39	23	− 1	2·05	52	− 36	1·8	−0·3	22	1023
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	m.m.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., February 10th, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 6. SUNDAY, FEBRUARY 6TH TO SATURDAY, FEBRUARY 12TH, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE SIXTH WEEK OF 1916.

After an unusually long series of mild weeks the temperature has declined to a more moderate level, so that for the week now under review the mean values were either equal to the average, or differed from it but little, the greatest divergence being 0°·8 A. (1°·4 F.) over Ireland. The 6th and the 12th had many maxima of 283° A. (50° F.) and upwards, the highest being 286° A. (55° F.) at Jersey on the former date. On the other days the records were very variable, each day having moderate to rather high maxima in some localities, low in others, as low as 273°·5 A. (33° F.) at West Linton on the 7th and 8th, and 274°·6 A. (35° F.) at Harrogate on the 11th. The night minima showed similar variability, the lowest values registered being 268°·5 A. (24° F.) at Rothamsted on the 9th, and 268° A. (23° F.) at Balmoral on the 11th. Rainfall was moderate in amount in Scotland West and Ireland North, considerably in excess of the normal elsewhere. Each day contributed one or more local heavy falls, the largest being 30 mm. at West Linton on the 7th, 28 mm. at Falmouth on the 10th, and 29 mm. at Fort William on the 12th. Hail, sleet or snow occurred daily in various districts, as far south as Guernsey on the 9th. At Marchmont the snow was 10 cm. deep on the 7th, and at West Linton next day it was 30 to 36 cm. Bright sunshine was about the normal in the north and east of Scotland, well in excess elsewhere, practically every day contributing its share. Thunderstorms visited a number of northern and western stations in the first four days. A well-defined solar halo was witnessed in several localities on the afternoon of the 10th, a double one at Benson and Stonyhurst. The coastal sea water was colder than usual by 0°·9 A. (1°·6 F.) off Caithness, and 1°·2 A. (2°·2 F.) off Donegal, but was above the normal elsewhere, by as much as 2°·9 A. (5°·2 F.) off Eastbourne.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		ENGLAND, E.		NORTH WALES.		ENGLAND, S.W.		IRELAND, S.W.	
	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.
		m/s		m/s		m/s		m/s		m/s
South	5	7·4	5	3·0	5	6·0	2	4·8	4	4·7
North	1	4·4	2	3·1	2	5·7	5	7·3	3	4·4
West	6	5·5	6	3·6	7	7·8	7	9·1	7	7·4
East	1	1·6	1	6·9	¼	1·7	0	—	¼	2·8
Calm	0	—	0	—	0	—	0	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH AVERAGE.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Deficient	Moderate
	Rainfall ...	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Moderate	Heavy	Heavy	Moderate	Heavy	Very heavy
	Sunshine ...	Moderate	Moderate	Abundant	Abundant	Abundant	Abundant	Abundant	Moderate	Moderate	Moderate	Abundant	Moderate

II.—THE WINTER SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

WINTER. 11 weeks from Nov. 28th, 1915.	Warmth ...	5, 3, 3	6, 2, 3	6, 4, 1	6, 5, 0	7, 3, 1	6, 5, 0	6, 3, 2	6, 4, 1	6, 4, 1	6, 2, 3	6, 3, 2	7, 3, 1
	Rainfall ...	6, 5, 0	6, 4, 1	5, 3, 3	8, 1, 2	6, 3, 2	7, 2, 2	5, 5, 1	8, 1, 2	8, 1, 2	5, 5, 1	4, 4, 3	7, 1, 3
	Sunshine ...	2, 8, 1	3, 6, 2	4, 6, 1	1, 7, 3	1, 7, 3	2, 6, 3	5, 4, 2	3, 7, 1	0, 6, 5	3, 6, 2	2, 5, 4	0, 5, 6

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1° A. = increment of $\frac{9}{5}$° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(7375-19.) Wt. 160—610. 450 2/16. D & S. G. 17/36

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Difference from Aver'ge	No. of Rain-Days.	Rainfall in the Week.		Difference from Average.	Daily Mean.	Difference from Average	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Difference from Average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from Average.	
0. SCOTLAND, N.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
p Baltasound	*31*																						*Baltasound.*
a Lerwick	54	44	6, 10, 12	33	8, 9	42·1	35·0	38·6	+ 0·4	7	1·31	33	—	1·9	+ 0·2	23							Deerness.
a, Islands .. *a* Stornoway	51	48	12th	32	8th	41·9	34·0	38·0	- 1·0	7	2·72	69	+ 42	1·1	- 0·7	13							Stornoway.
a Castlebay, Barra Isd.	*37*	*49*	*12th*	*34*	*8, 9*	*45·1*	*36·4*	*40·8*	*- 0·4*	*7*	*0·60*	*15*	—	*1·8*	—	*21*							*Castlebay.*
a Wick	81	44	12th	30	8th	40·4	33·3	36·9	- 0·7	7	0·50	13	- 1										
b, Main- *p* Strathpeffer	200																						
land. *p* Glencarron	500	46	6th	31	7, 8, 12	41·0	32·3	36·7	+ 0·2	7	3·27	83	+ 35										Strathpeffer.
p Fort Augustus	68	47	6th	30	12th	41·6	33·0	37·3	- 0·4	7	3·03	77	+ 50	0·7	- 0·5	8							Fort Augustus.
p Fort William	171	47	6, 12	33	7, 8, 10	42·6	34·0	38·3	- 0·8	7	3·17	81	+ 34										
1. SCOTLAND, E.																							
p Gordon Castle	101	48	6th	31	8th	42·4	33·3	37·9	- 0·3	7	0·40	10	- 3	3·2	—	37	4	17	36·1	+1·4	39·0	+1·7	Crathes.
a Nairn	82	46	12th	31	8, 9	40·7	32·7	36·7	- 0·7	7	1·17	30	+ 19	*2·1*	—	*24*							*Gordon Castle.*
a Aberdeen	46	47	12th	30	12th	43·3	33·4	38·4	+ 0·5	3	0·12	3	- 11	1·3	—	15							Nairn.
a Balmoral	930	43	12th	23	11th	39·7	29·3	34·5	+ 0·5	4	0·39	10	- 7	3·1	+ 0·8	36							Aberdeen.
p Crieff	432	49	6th	29	8, 12	42·3	31·0	36·7	- 1·0	5	1·81	46	+ 24				6	17					Balmoral.
																							Balruddery.
a Leith	18	48	12th	33	7-12	42·1	33·4	37·8	- 1·3	6	1·34	34	+ 24										
a West Linton	789	43	6th	30	12th	37·6	28·0	32·8	- 2·1	5	2·32	59	—	*1·5*	—	*17*	7	14					*West Linton.*
p Marchmont	498	49	6th	29	9th	41·7	30·9	36·3	- 0·5	6	0·69	18	+ 5	1·4	- 0·7	16	6	25					Marchmont.
a Edinburgh	*441*	*51*	*7th*	*31*	*8th*	*45·9*	*32·9*	*39·4*	—	*6*	*1·20*	*30*	—	2·1	—	24	4	27					Edinburgh.
6. *a* SCOTLAND, W.																							
a Poltalloch	132	46	12th	31	12th	42·1	33·0	37·6	- 1·1	7	1·90	48	+ 24										
p Glasgow Observatory	180	50	6th	32	8th	42·4	34·7	38·6	+ 0·1	5	1·34	34	+ 17	1·8	+ 0·5	21	2	25					Glasgow.
p Rothesay	170	49	6, 7	31	7th	44·3	33·7	39·0	- 0·5	7	1·76	45	+ 22	*1·8*	—	*21*	6	23	38·1		42·7	+1·1	*Rothesay.*
a Kilmarnock	90	47	12th	29	12th	42·7	33·0	37·9	- 1·0	7	1·19	30	—	*1·5*	—	*17*							*Kilmarnock.*
a Colmonell	170	47	12th	34	8th	43·1	35·7	39·4	+ 0·9	6	0·95	24	+ 1				3	28					
a Dumfries	160	47	12th	30	12th	42·3	33·6	38·0	- 0·6	6	0·48	12	- 7	*2·2*	—	*25*	3	23	38·6		42·3		*Dumfries.*
Eskdalemuir	*799*	*44*	*6, 12*	*27*	*11, 12*	*39·3*	*30·1*	*34·7*	—	*6*	*1·31*	*33*	—	*1·5*	—	*17*							*Eskdalemuir.*
p Cally, Gatehouse	120	47	12th	30	11, 12	43·1	33·0	38·1	- 0·3	3	0·53	13	- 12										
b, I. OF MAN. *p* Douglas	277	48	6th	31	9th	44·0	36·0	40·0	- 0·3	7	0·96	24	+ 4	3·0	+ 0·8	33	1	29					Douglas.
2. ENGLAND, N.E.																							
a Ainwick Castle	210	48	12th	32	11, 12	43·3	33·9	38·6	+ 0·6	4	0·40	10	- 2	3·4	—	38	6	26	36·1	+0·6	41·2	+3·0	Cockle Park.
a Tynemouth	71	50	6th	32	12th	43·3	34·0	38·7	- 0·1	3	0·51	13	+ 4										*Tynemouth.*
p Durham	336	50	6th	30	9, 12	43·3	32·4	37·9	+ 0·6	4	0·41	11	+ 3	4·2	+ 2·1	47	4	23					Durham.
a, North .. *p* Rounton	249	50	6th	28	12th	43·6	31·4	37·5	+ 0·4	4	0·52	13	+ 3				6	22	38·0				Rounton.
a West Witton	*605*	*45*	*12th*	*28*	*12th*	*40·6*	*33·0*	*36·8*	—	*5*	*0·89*	*23*	—				5	20	38·2		41·7		*West Witton.*
p Scarborough	100	50	6, 8	32	8th	47·6	33·9	40·8	+ 2·1	3	0·84	21	+ 10	4·3	—	48					43·0†		Scarborough.
p York	56	50	6th	30	12th	44·3	33·3	38·8	+ 0·5	6	0·82	21	+ 11	3·0	+ 1·3	33			40·0	+3·0	43·6	+3·4	York.
b, South .. *a* Spurn Head	26	46	6th	31	9th	42·7	34·4	38·6	- 0·3	3	0·56	14	+ 7	*4·0*	—	*44*							*Spurn Head.*
a Lincoln	58	53	6th	28	9th	45·1	33·0	39·1	+ 1·2	4	0·62	16	+ 7						37·8	+2·3	43·5	+4·2	Lincoln.
a Fulbeck	180	53	6th	28	9, 10, 12	44·0	32·0	38·0	- 0·2	5	0·72	18	+ 8	4·6	—	50	7	23	39·6	+1·9	44·5	+2·9	Rauceby.
3. ENGLAND, E.														4·1	—	45							Skegness.
p Cromer	196	53	6th	28	9th	45·4	33·0	39·2	+ 2·2	4	0·68	17	—	3·7	—	41							Cromer.
p Little Massingham	280	?51	6th	27	9th	?44·6	32·4	?38·5	+ 0·9	3	0·63	16	+ 5	3·7	+ 1·5	41	6	22					Lit. Massingham.
a, North .. *a* Yarmouth	13	52	6th	29	9, 10	44·9	34·1	39·5	+ 1·9	3	0·75	19	+ 10	3·8	—	42			39·7	+2·7	45·3	+4·3	Yarmouth.
a Norwich	93	52	6th	28	9th	44·3	33·7	39·0	+ 1·5	3	0·72	18	—	*4·5*	—	*49*	5	23	38·4				*Norwich.*
a Geldeston	37	53	6th	27	9th	46·1	33·6	39·9	+ 1·4	4	0·64	16	+ 7	3·9	+ 1·6	43							Geldeston.
p Cambridge	41	49	6th	27	9th	44·4	33·3	38·9	+ 0·6	4	0·40	10	+ 2	4·2	+ 1·9	46	4	25	40·0	+3·2	44·6	+3·7	Cambridge.
b, South .. *a* Clacton-on-Sea	54	49	6th	30	9, 10	45·3	35·4	40·4	+ 1·9	2	0·29	7	—	4·6	—	49	3	26	40·9	+2·3	45·1	+2·3	Clacton.
a Rothamsted	424	50	6th	24	9th	43·6	32·3	38·0	+ 0·4	5	0·33	8	- 3	4·1	+ 2·0	44	7	18	39·4				Rothamsted.
p Tottenham	51	53	6th	30	9th	45·9	36·6	41·3	+ 2·3	4	0·30	8	—	3·3	—	35	1	25			45·6	+3·4	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate	479	45	12th	30	9th	40·6	32·3	36·5	- 0·5	6	1·14	29	+ 16	3·9	—	43	3	24	38·8	+1·7	42·0	+3·0	Harrogate.
p Buxton	*987*	*44*	*6th*	*29*	*9, 12*	*39·7*	*31·9*	*35·8*	+ *0·3*	*6*	*1·03*	*26*	+ *1*	*2·8*	—	*31*	5	22	36·8	+0·9	41·9	+1·3	*Buxton.*
a Bawtry	65	53	6th	29	9th	43·7	32·6	38·2	0·0	3	0·93	24	+ 14	4·3	—	48	4	27	39·0	+2·8	43·2	+3·2	Sheffield.
a Nottingham	82	53	6th	28	9th	44·7	33·0	38·9	+ 0·9	3	0·57	14	+ 4	3·8	+ 2·0	42	5	21	38·8		42·9		Worksop.
b, East .. *p* Birmingham, Edgbsn.	535	50	6th	29	9th	42·9	33·7	38·3	+ 0·3	5	0·62	16	+ 5	3·0	—	33	4	24	36·9	+1·3	41·8	+3·6	Nottingham.
a Raunds	203	53	6th	24	9th	45·3	30·7	38·0	+ 0·3	4	0·41	10	—	3·4	—	37	4	23	40·0	+1·5	45·2	+2·2	Birmingham.
p Oxford	208	53	6th	30	9th	44·9	35·1	40·0	+ 1·0	5	0·42	11	+ 1	*4·3*	—	*47*	7	19	42·0		45·8		*Raunds.*
a Cheadle	646	49	6th	25	9th	41·7	31·1	36·4	- 0·7	4	0·94	24	+ 11	3·6	+ 1·5	38	4	20					Oxford.
p Shrewsbury	191	54	6th	28	9th	45·9	33·6	39·8	+ 0·7	5	0·84	21	—				6	24					Cheadle.
c, West .. *a* Hereford§	291	51	6th	30	9th	45·7	33·9	39·8	+ 0·9	4	0·57	15	+ 2				5	22					Shrewsbury.
a Cirencester	446													*3·8*	—	*42*	5	22	38·9		43·6		*Malvern.*§
a Bath	66																						Cirencester.
5. ENGLAND, S.E.																							Bath.
a Marlborough	424	52	6th	27	9th	45·1	32·0	38·6	+ 0·7	4	0·86	22	+ 8	4·4	—	47	3	22	42·0	+3·7	46·1	+3·5	Worthing.
a Margate	53	51	6th	30	9th	46·1	36·1	41·1	+ 1·7	4	0·45	11	+ 2	2·8	+ 0·9	30	5	18	41·3		45·8		Marlborough.
a Wisley, Surrey	150	51	6th	29	9th	45·6	35·0	40·3	+ 0·7	4	0·48	12	—	3·5	—	38	1	26	41·3	+2·9	45·1	+4·3	Margate.
p Salisbury (Wilton)	180	53	6th	27	9, 10	46·9	33·6	40·3	+ 1·7	6	0·99	25	+ 10	3·7	—	40	6	16	40·7	+3·5	44·9	+3·7	Wisley.
a Tunbridge Wells	354	50	6th	27	9th	46·7	34·6	40·7	+ 2·5	4	0·68	17	+ 3	3·1	+ 1·0	33	4	18	41·3				Salisbury.
a Dungeness	21	50	6, 7	23	9, 10	46·9	35·7	41·3	+ 1·8	5	0·91	24	+ 14	4·1	—	44	4	17	41·3	+4·7	45·0		Tunbridge Wells.
p Hastings	178	50	6, 7	30	9th	46·6	36·1	41·4	+ 1·6	5	0·53	14	+ 1										Littlestone.
p Southampton	64	51	6th	29	9th	47·4	35·6	41·5	+ 0·8	4	0·67	17	+ 4	4·0	+ 1·7	43	4	25	41·1		45·3		Hastings.
a Ventnor	59	50	6, 12	34	9th	47·9	38·3	43·1	+ 1·5	6	1·07	27	+ 14	4·4	+ 1·9	47	5	19					Southampton.
LONDON. *p* Kew	18	52	6th	29	9th	45·3	35·2	40·3	+ 1·0	4	0·41	*10*	+ 1	3·9	+ 2·1	42	3	23	40·6	+3·6	45·5	+3·5	Ventnor.
a Westminster	*27*	*53*	*6th*	*28*	*9th*	*47·0*	*35·6*	*41·3*	+ *2·0*	*4*	*0·40*	*10*	*0*	*2·7*	+ *1·7*	*29*	4	27					Kew.
a Greenwich	*155*	*51*	*6th*	*28*	*5th*	*46·0*	*35·6*	*40·8*	+ *1·8*	*4*	*0·39*	*10*	+ *1*	*2·8*	+ *1·0*	*30*	4	24					*Westminster.*
a Hampstead	*450*	*50*	*6th*	*26*	*9th*	*44·1*	*33·0*	*38·6*	—	*4*	*0·38*	*10*	—	*3·8*	—	*41*	7	18					*Greenwich.*
a Camden Square	*110*	*52*	*6th*	*28*	*9th*	*46·9*	*35·3*	*41·1*	—	*4*	*0·35*	*9*	—	*3·0*	—	*32*	3	25					*Hampstead.*
7. *a*, ENGLAND, N.W.																							*Camden Square.*
p Aspatria	250	49	6th	31	11, 12	43·1	33·4	38·3	+ 0·6	5	0·80	20	+ 5	3·2	—	36							Hoylake.
p Newton Rigg	559	50	6th	29	10, 12	41·7	32·4	37·1	+ 0·5	6	1·18	30	+ 11	1·5	—	17	3	24	40·0		44·0		Aspatria.
p Stonyhurst	375	49	6th	30	12th	42·4	33·6	38·0	0·0	6	1·58	40	+ 19	2·3	+ 0·4	26	5	21	38·8	+2·0	41·9	+2·5	Newton Rigg.
p Blackpool	66	46	6, 12	33	11, 12	44·3	36·9	40·6	+ 1·9	6	0·98	25	+ 11	2·2	+ 0·4	24	3	23					Stonyhurst.
a Southport	*37*	*48*	*12th*	*32*	*12th*	*44·1*	*36·1*	*40·1*	+ *1·2*	*6*	*1·13*	*29*	+ *15*	3·0	+ 1·1	33	2	27	42·0		45·7		Blackpool.
a Liverpool (Bidston)	188	51	6th	33	9, 10	45·0	35·6	40·3	+ 0·9	7	1·16	29	+ 18	*3·1*	—	*34*	1	27	38·8	+3·1	42·4	+3·5	*Southport.*
a Hawarden Bridge	22	51	12th	33	9th	46·0	36·9	41·5	+ 1·4	6	0·84	21	+ 12	*3·5*	—	*39*							*Liverpool.*
p Manchester (Whit. Pk.)	125	52	6th	31	9th	44·1	34·3	39·2	- 0·1	6	1·40	36	+ 24	*1·1*	—	*19*	3	28	38·6	+2·2	44·9	+3·7	*Manchester (City)*
b NORTH WALES.														*1·4*	+ *0·4*	*16*							" *(Whit. Park)*
p Llanddulno	71	54	6th	35	9th	46·1	37·9	42·0	+ 0·7	7	1·19	30	+ 17	2·1	- 0·1	23							Llanddulno.
a Holyhead	15	48	6, 12	35	10th	45·7	38·6	42·2	+ 0·8	5	1·15	29	+ 13	*2·3*	—	*25*							*Holyhead.*
p Bettws-y-Coed	148	50	6th	32	12th	44·6	35·4	40·0	- 0·4	7	1·68	43	—	1·2	—	13			40·6	+2·5	45·6	+3·4	Bettws-y-Coed.
														2·0	—	22							Aberdovey.

† At 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.				Mean for the Week.				Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Of Daily Max.	Of Daily Min.	Daily Mean.	Difference from Aver'ge	No. of Rain-Days.	Rainfall in the week.		Difference from Average.	Daily Mean	Difference from Average.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Difference from average.	Earth 4 ft. Mean.	Earth 4 ft. Difference from average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES:																							
a Llangammarch Wells	550	49	6th	31	9, 12	43·8	33·2	38·5	+ 0·5	7	1·28	33	—	2·2	—	24	•	•	•	•	•	•	Aberystwyth.
a Pembroke	149	49	6, 12	35	9, 10	45·7	39·1	42·4	+ 0·3	6	1·18	30	+ 13	2·4	—	26	6	23	39·9	+1·5	45·5	+2·5	Llangammarch.
p Cardiff	202	51	6th	31	9th	44·6	36·0	40·3	+ 0·6	6	1·14	29	+ 10	2·4	0·0	26	•	•	•	•	•	•	Pembroke.
														3·2	—	*34*	4	24	41·4	+2·8	45·9	+3·9	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	54	6th	30	9th	45·1	35·0	40·1	+ 0·1	6	1·38	35	+ 20	*2·8*	—	*30*	3	29	•	•	•	•	*Clifton.*
a Shaftesbury	722	50	6, 7	30	9th	44·6	34·1	39·4	+ 1·3	5	0·85	22	+ 7	•	•	•	•	•	40·9	•	45·0	•	Shaftesbury.
a Arlington	613	51	6th	32	8, 9	44·4	34·1	39·3	+ 0·1	6	2·16	55	+ 31	•	•	•	•	•	•	•	•	•	Arlington.
a Newquay	*199*	*52*	*6th*	*35*	*9, 10*	*47·9*	*38·0*	*43·0*	*- 0·3*	*7*	*2·06*	*52*	*+ 35*	2·5	+ 0·1	27	0	33	44·8	•	47·5	•	Newquay.
a Cullompton	202	54	6th	30	9th	46·7	35·0	40·9	+ 0·7	6	1·34	34	+ 17	2·5	+ 0·4	27	4	24	42·6	•	•	•	Cullompton.
a Portland Bill	12	50	6th	36	9th	47·4	40·1	43·8	+ 2·3	6	0·94	24	—	*3·5*	—	*37*	•	•	•	•	•	•	*Weymouth.*
p Plymouth	116	52	6th	34	9th	47·6	39·3	43·5	+ 1·5	7	1·54	39	+ 22	2·7	+ 0·4	29	•	•	43·1	+2·7	47·6	•	Plymouth.
a Falmouth	167	52	6th	34	10th	47·4	38·1	42·8	- 0·3	7	2·31	59	+ 36	2·9	+ 0·4	31	2	29	45·0	•	48·0	•	Falmouth.
9. IRELAND, N.																							
a, West .. { *a* Malin Head	208	47	12th	33	8th	43·1	35 6	39·4	- 1·4	7	1·00	25	+ 11	*1·7*	—	*20*	•	•	•	•	•	•	*Malin Head.*
a Blacksod Point ..	?	49	12th	33	9th	45·9	36·4	41·2	- 1·3	7	0·79	20	- 4	•	•	•	•	•	•	•	•	•	
p Markree Castle ..	122	52	6th	31	9th	45·4	32·7	39·1	- 0·7	7	1·44	37	+ 17	2·0	+ 0·1	22	6	28	40·9	•	45·0	•	Markree Castle.
a Birr Castle	175	50	12th	32	9th	44·0	33·1	38·6	- 1·4	6	0·98	25	+ 11	*3·0*	*+ 0·9*	*33*	•	•	•	•	•	•	*Birr Castle.*
b, East .. { *p* Armagh	196	51	6th	29	9th	43·3	32·0	37·7	- 2·1	6	0·68	17	+ 4	2·7	+ 0·7	30	4	27	39·8	+0·1	44·2	+1·6	Armagh.
a Donaghadee	101	48	12th	30	9th	43·1	32·9	38·0	- 2·5	7	0·33	8	- 6	•	•	•	•	•	•	•	•	•	
														•	•	•	5	25	41·4	+1·0	45·5	+2·5	Trinity Coll.
10. IRELAND, S.														3·1	+ 0·7	34	6	26	•	•	•	•	Phœnix Park.
a, East .. { *p* Dublin, City	47	53	6th	33	8-10, 12	45·1	34·1	39·6	- 2·5	7	0·51	13	0	•	•	•	5	29	•	•	•	•	Dublin City.
a Kilkenny	212	51	12th	30	10, 12	44·6	32·7	38·7	- 1·9	7	0·72	18	+ 1	•	•	•	•	•	•	•	•	•	
a Waterford	20	50	6th	33	2, 12	46·0	34·4	40·2	- 1·1	4	0·89	23	+ 1	•	•	•	•	•	•	•	•	•	
a Seskin, Carrick-on-Suir	*541*	*52*	*6th*	*30*	*8th*	*44·6*	*33·0*	*38·8*	—	*6*	*0·61*	*16*	—	*3·7*	—	*41*	3	28	•	•	•	•	*Seskin.*
a Birr Castle	175	50	12th	32	9th	44·0	33·1	38·6	- 1·4	6	0·98	25	+ 11	3·0	+ 0·9	33	•	•	•	•	•	•	Birr Castle.
a Foynes	50	51	12th	33	9th	46·3	36·3	41·3	- 1·0	7	1·93	49	+ 29	•	•	•	•	•	•	•	•	•	
b, West .. *a* Cahir	198													•	•	•	•	•	•	•	•	•	
a Killarney	174	53	12th	33	12th	47·6	35·4	41·5	- 1·0	7	2·42	61	+ 28	•	•	•	•	•	•	•	•	•	
a Valencia	30	52	12th	35	9th	47·9	38·3	43·1	- 1·2	7	2·05	52	+ 21	2·7	+ 0·4	30	•	•	•	•	•	•	Valencia.
a Roche's Point	32	50	10, 12	35	9th	46·4	37·7	42·1	- 1·2	7	0·67	17	- 7	•	•	•	•	•	•	•	•	•	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	52	12th	36	9th	48·6	41·0	44·8	- 0·4	7	1·26	32	+ 15	3·4	+ 0·7	36	•	•	•	•	•	•	Scilly.
a Jersey, St. Aubins ..	25	55	6th	34	10th	49·1	41·0	45·1	+ 2·5	7	1·94	49	+ 33	2·7	- 0·3	29	•	•	•	•	•	•	St. Heliers.
a Guernsey (Villa Carey)	180	53	6th	35	10th	48·1	40·4	44·3	+ 0·9	6	1·93	49	+ 32	3·0	+ 0·4	32	0	31	44·3	+2·7	48·0	+3·1	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, February 12th, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Height. Above Ground.	Height. Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Gales, force 8 or more. Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	High Winds, forces 6 and 7. Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.	Date and Hour.	Highest Gust with Date and Time.
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	m/s.		m/s. d. h. m.
1. SCOTLAND, E.														
Dyce	220	75	‡15**	—	—	—	—	45	109	14	0	S. by W. 9	7th 6h.	19 12th 19 . 58
Aberdeen*	153	105 { 37 / 52 } †		—	—	—	—	106	56	6	0	SW. 11	6th 21h.	19 6th 0 . 42
Edinburgh	485	39	31	6th	1	6 to 8, 12	33	77	52	5	0	S. 17	6th 1h.	26 6th 0 . 31
6. SCOTLAND, W.														
Eskdalemuir	850	50	22	—	—	6 to 10, 12	47	61	41	19	0	SSW. 17	6th 1h.	26 6th 4 . 25
Paisley	188	81	52	—	—	6, 12	3	76	70	19	0	SW. by S. 12	12th 18h.	26 12th 17 . 54
2. ENGLAND, N.E.														
Alnwick Castle	340	70	17	—	—	—	—	26	103	39	0	SW. 7	7th 10h.	18 7th 6 . 12
South Shields	72	61	12	—	—	7th	5	78	70	15	0	W. by N. 13	7th 12h.	21 7th 10 . 18
Spurn Head	63	40	†	—	—	6, 7, 9, 10	28	110	28	0	4	— 14	7th 12h.	24 6th 16 . 2
3. ENGLAND, E.														
Gorleston	52	42	‡	—	—	6, 11	15	68	84	1	0	— 13	11th 10h.	19 6th 13 . 36
Shoeburyness	103	90	‡	—	—	6, 11	19	80	67	2	0	SW. by S. 14	6th 10h.	19 11th 19 . 6
4. MIDLAND COUNTIES.														
Benson	270	84	‡	—	—	6, 11	10	75	78	5	0	NNW. 12	11th 19h.	20 11th 21 . 47
5. ENGLAND, S.E.														
Dover	271	40	‡	11th	2	6, 11, 12	31	74	30	21	10	— 18	11th 24h.	24 11th 23 . 48
Warlingham	642	33	‡	—	—	6th	1	27	115	25	0	— 11	6th 12h.	20 6th 12 . 25
Brighton	261	53	6	—	—	7, 11	5	98	33	4	28	— 12	11th 4h	18 11th 3 . 6
Kew	82	65 { 6 / 22 } †		—	—	6th	2	49	113	4	0	SW. by S. 12	3th 11h.	19 6th 10 . 46
South Kensington ..	123	92	30	—	—	—	—	7	124	37	0	SW. by S. 7	6th 12h.	15 6th 11 . 39
7. ENGLAND, N.W.														
Carnforth	246	56	23	—	—	—	—	71	50	47	0	SW. 11	6th 24h.	20 8th 1 . 25
Southport	80	62	48	6, 7	8	6 to 12	83	53	24	0	0	W. by S. 19	7th 8h.	26 7th 7 . 31
Holyhead*	60	40	‡	—	—	6 to 12	115	50	3	0	0	W. by S. 17	7th 8h.	24 6th 16 . 59
8. ENGLAND, S.W.														
Pendennis Castle§ ..	256	65	24	6th	8	6 to 12	57	88	15	0	0	SW. by W. 19	6th 11h.	25 6th 13 . 51
Plymouth	185	88	2	—	—	6, 7, 11	15	72	72	9	0	— 13	6th 7h.	21 11th 14 . 41
10. IRELAND, S.														
Quilty	100	40	‡	6th	2	6 to 9, 11, 12	97	56	6	0	7	— 18	6th 21h.	28 6th 15 . 18
Weaver Pt.	160	30	‡‡	—	—	—	—	—	—	—	—	— —	— —	— —
11. ENGLISH CHANNEL.														
Scilly*	159	{ 32 / 19 }	‡	7, 9, 11	7	6 to 12	111	49	1	0	0	NNW. 18	9th 16h.	28 7th 5 . 0

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees
† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew), and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the averages for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the difference of the mean temperature from the average are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

SIXTH WEEK—February 6th to February 12th, 1916.

DISTRICTS, (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L.
			Means of				Accumulated Number of Day-Degrees.												
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Difference from Av. (25 Yrs.)	Above 42°	Difference from Av. (25 Yrs.)	Below 42°	Difference from Av. (25 Yrs.)	Number of Rain-Days.	Difference from Average. (25 Years.)	Total Fall.		Difference from Average. (25 Years.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	48	30	78·3	73·9	76·1	+ 0·2	0	− 6	31	− 11	7	+ 2	2·33	59	+ 28	1·2	−0·3	15	995
Eastern.																			
1. SCOTLAND, EAST ...	49	20	78·1	72·7	75·4	− 0·3	0	− 8	39	− 7	5	+ 1	1·03	26	+ 12	2·2	−0·2	26	998
2. ENGLAND, N.E.	53	28	79·7	73·6	76·7	0·0	6	− 4	33	− 1	4	+ 1	0·60	15	+ 5	3·9	+1·5	44	1004
3. ENGLAND, EAST ...	53	24	80·2	74·0	77·1	+ 0·5	8	− 3	31	− 7	4	0	0·53	13	+ 4	3·9	+1·4	43	1008
4. MIDLAND COUNTIES ...	54	24	79·6	73·5	76·6	− 0·1	5	− 7	33	− 4	4	0	0·72	18	+ 6	3·7	+1·5	40	1007
5. ENGLAND, S.E.	53	27	81·1	74·8	77·9	+ 0·5	13	− 1	27	− 1	5	+ 2	0·71	18	+ 5	3 8	+1·6	41	1010
Western.																			
6. SCOTLAND, WEST ...	50	29	79·1	74·2	76·7	0·0	3	− 7	29	− 3	6	+ 1	1·14	29	+ 4	2·4	+0·4	27	1002
7. ENGLAND, N.W.	54	29	79·8	74·9	77·4	+ 0·2	6	− ·5	24	− 4	6	+ 2	1·20	30	+ 14	2·3	+0·3	26	1007
8. ENGLAND, S.W.	54	30	80·6	75·4	78·1	0·0	10	− 6	23	0	6	+ 2	1·41	36	+ 17	2·5	+0·2	27	1011
9. IRELAND, NORTH ...	52	29	79·7	74·0	76·9	− 0·8	6	− 8	31	+ 6	7	+ 2	0·87	22	+ 4	2·4	+0·3	26	1003
10. IRELAND, SOUTH ...	53	30	80·8	74·8	77·8	− 0·8	11	− 9	26	+ 7	7	+ 2	1·27	32	+ 12	2·9	+0·6	32	1011
11. ENGLISH CHANNEL ...	55	34	82·2	77·9	80·1	+ 0·4	24	0	3	− 7	7	+ 3	1·71	43	+ 27	3·0	+0·2	32	1013

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 11 Weeks, November 28th, 1915, to February 12th, 1916.

0. SCOTLAND, NORTH ...	53	16	79·7	74·9	77·4	+ 0·7	110	+ 24	259	−104	68	+ 9	20·46	519	+147	0·8	0·0	12	1001
Eastern.																			
1. SCOTLAND, EAST ...	57	8	79·7	74·1	76·9	+ 0·7	103	+ 17	351	− 83	54	+10	10·46	266	+ 95	1·3	0·0	18	1003
2. ENGLAND, N.E.	60	22	81·1	75·6	78·4	+ 1·5	192	+ 92	203	−142	46	+ 5	7·11	182	+ 58	1·6	+0·1	21	1007
3. ENGLAND, EAST ...	58	21	81·7	76·2	79·0	+ 2·4	226	+118	172	−222	48	+ 6	6·87	173	+ 56	1·6	+0·1	20	1011
4. MIDLAND COUNTIES ...	59	18	81·7	75·6	78·8	+ 2·2	236	+115	195	−201	49	+ 7	8·09	207	+ 65	1·5	+0·1	18	1010
5. ENGLAND, S.E.	63	17	82·3	77·2	79·8	+ 2·2	301	+142	108	−181	52	+11	10·54	269	+117	1·5	−0·1	19	1013
Western.																			
6. SCOTLAND, WEST ...	54	21	80·5	75·7	78·2	+ 0·7	151	+ 24	192	− 87	66	+15	14·73	375	+ 61	1·2	0·0	16	1005
7. ENGLAND, N.W.	58	23	81·4	76·6	79·1	+ 1·6	205	+ 77	145	−131	59	+13	11·75	293	+ 96	1·2	0·0	15	1008
8. ENGLAND, S.W.	58	22	82·4	77·8	80·2	+ 1·7	304	+ 99	78	−133	58	+10	14·98	383	+130	1·3	−0·4	16	1012
9. IRELAND, NORTH ...	56	19	81·6	76·2	78·9	+ 0·9	217	+ 63	173	− 71	66	+12	10·98	277	+ 50	1·5	+0·1	20	1004
10. IRELAND, SOUTH ...	59	20	82·6	77·0	79·9	+ 1·0	311	+ 71	110	− 74	64	+13	11·94	302	+ 40	1·6	−0·1	20	1008
11. ENGLISH CHANNEL ...	57	36	83·6	79·7	81·7	+ 1·4	450	+132	10	− 69	60	+ 7	12·48	317	+100	1·7	−0·4	21	1014

THE YEAR.—Aggregates, &c., for the Period of 6 Weeks, January 2nd to February 12th, 1916.

0. SCOTLAND, NORTH ...	53	30	80·9	75·9	78·5	+ 2·1	102	+ 62	88	−128	38	+ 6	13·68	347	+145	1·1	+0·1	15	1003
Eastern.																			
1. SCOTLAND, EAST ...	57	20	81·1	75·0	78·2	+ 2·2	96	+ 51	146	−101	26	+ 2	4·62	118	+ 31	1·9	+0·3	26	1006
2. ENGLAND, N.E.	60	27	82·1	76·4	79·4	+ 2·7	151	+100	74	−125	18	− 4	1·65	43	− 18	2·1	+0·5	26	1013
3. ENGLAND EAST ...	56	24	82·0	76·4	79·3	+ 2·9	139	+ 85	80	−146	21	− 2	2·40	60	+ 1	2·0	+0·1	24	1018
4. MIDLAND COUNTIES ...	58	24	82·3	76·4	79·4	+ 2·9	155	+ 91	72	−151	21	− 2	2·50	64	− 11	1·9	+0·3	23	1017
5. ENGLAND, S.E.	57	27	82·5	77·3	80·0	+ 2·7	167	+ 92	53	−117	25	+ 3	2·81	72	− 6	2·0	+0·3	23	1020
Western.																			
6. SCOTLAND, WEST ...	54	28	81·5	76·7	79·2	+ 2·0	125	+ 63	64	−102	37	+ 9	7·00	178	+ 19	1·5	+0·1	19	1010
7. ENGLAND N.W.	58	28	82·3	77·6	80·0	+ 2·7	154	+ 93	39	−123	31	+ 6	4·81	121	+ 18	1·4	0·0	17	1015
8. ENGLAND, S.W.	57	27	82 5	78·2	80·4	+ 2·2	167	+ 67	30	− 97	28	+ 2	5·34	138	+ 13	1·6	−0·2	19	1019
9. IRELAND NORTH ...	56	28	82·4	76·8	79·7	+ 1·9	158	+ 77	61	− 80	36	+ 7	4·70	119	+ 1	1·9	+0·4	23	1010
10. IRELAND, SOUTH ...	59	27	83·2	77·8	80·6	+ 1·8	192	+ 69	37	− 68	36	+ 9	4·93	125	− 9	1·7	−0·1	21	1017
11. ENGLISH CHANNEL ...	56	33	83 3	79·7	81·6	+ 1·7	232	+ 83	3	− 46	30	+ 2	3·76	95	− 9	2 0	−0·2	24	1022
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	m.m.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., February 17th, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 25

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 7. SUNDAY, FEBRUARY 13TH, TO SATURDAY, FEBRUARY 19TH, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE SEVENTH WEEK OF 1916.

The week was chiefly characterised by the frequency of snow and hail showers, which were reported from all districts, but especially in the north. In a good many cases these were accompanied by thunder and lightning. At several stations in the north of Scotland the ground was covered with snow from Tuesday to the end of the week, a depth of 20 cm. being reported from Strathpeffer. Mean temperature was 0°·9 A. (1°·6 F.) below the normal in Scotland North, but in all English and Irish districts temperature was above the average, the excess ranging up to between 2°·0 and 2°·5 A. (3°·6 and 4°·5 F.) in England East and South-East and in the Channel. The highest temperatures of the week lay between 283° and 286° A. (50° and 55° F.) everywhere except in Scotland. At many stations in Scotland North and East 280° A. (45° F.) was not exceeded. Minimum temperatures fell to about the freezing point nearly everywhere. Precipitation was much in excess of the average in nearly all districts, the excess ranging up to 29 mm. in England South-West and Ireland South. Rain or snow fell on six days of the week at nearly all stations. Sunshine measurements were, however, above the normal in the eastern districts and in the west the deficiency was not large. Mock suns were seen at Skegness on Sunday morning. Sea temperature was slightly above the normal at Berwick, but below it elsewhere, the defect being 1°·0 A. (1°·8 F.) on the north-west coast of Ireland.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		ENGLAND, E.		NORTH WALES.		ENGLAND, S.W.		IRELAND, S.W.	
	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.
		m/s		m/s		m/s		m/s		m/s
South	4	5·5	3	2·6	4	4·7	2	4·5	5	5·7
North	3	5·0	2	3·0	2	3·6	4	5·2	1	1·7
West	6	6·6	6	5·7	6	10·3	7	13·2	6	9·7
East	1	3·5	0	—	1	1·3	0	—	1	2·9
Calm	0	—	0	—	0	—	0	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH AVERAGE.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Unusual	Moderate	Unusual	Moderate	Moderate	Unusual	Moderate	Moderate	Unusual
	Rainfall ...	Heavy	Very heavy	Heavy	Very heavy	Very heavy	Heavy	Heavy	Very heavy	Very heavy	Very heavy	Very heavy	Heavy
	Sunshine ...	Moderate	Abundant	Moderate	Abundant	Abundant	Abundant	Moderate	Moderate	Moderate	Moderate	Moderate	Scanty

II.—THE WINTER SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

WINTER. 12 weeks from Nov. 28th, 1915.	Warmth ...	5, 4, 3	6, 3, 3	6, 5, 1	7, 5, 0	7, 4, 1	7, 5, 0	6, 4, 2	6, 5, 1	7, 4, 1	6, 3, 3	6, 4, 2	8, 3, 1
	Rainfall ...	7, 5, 0	7, 4, 1	6, 3, 3	9, 1, 2	7, 3, 2	8, 2, 2	6, 5, 1	9, 1, 2	9, 1, 2	6, 5, 1	5, 4, 3	8, 1, 3
	Sunshine ...	2, 9, 1	4, 6, 2	4, 7, 1	2, 7, 3	2, 7, 3	3, 6, 3	5, 5, 2	3, 8, 1	0, 7, 5	3, 7, 2	2, 6, 4	0, 5, 7

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1° A. = increment of $\frac{9}{5}$° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(7451—19.) Wt. 160—610. 450. 2/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Difference from Aver'ge	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Difference from Average.	Bright Sunshine Hours per Day. Daily Mean.	Difference from Average	Percentage of possible duration	Ground Temperature. Grass Min. Ground Frosts	Lowest Reading.	Earth 1 ft. Mean	Difference from Average.	Earth 4 ft. Mean.	Difference from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.																						
p Baltasound	*31*																					*Baltasound.*
a Islands .. *a* Lerwick ..	64	43	13th	31	16, 17	40·6	33·0	36·8	- 1·2	6	1·57	40	—	2·7	+ 0·8	30	•	•	•	•	•	•	Deerness.
a Stornoway ..	51	45	19th	30	15th	40·6	32·7	36·7	- 2·2	7	1·22	31	+ 5	2·5	+ 0·4	28	•	•	•	•	•	•	Stornoway.
a Castlebay, Barra Isd. ..	*37*	*45*	*18, 19*	*33*	*15–17*	*43·6*	*34·7*	*39·2*	*- 1·8*	*7*	*1·42*	*36*	—	*2·4*	—	*26*	•	•	•	•	•	•	*Castlebay*
a Wick	81	42	19th	30	15, 18	40·1	32·0	36·1	- 1·4	6	0·47	12	- 2	•	○	○	•	•	•	•	•	•	
b, Main- *p* Strathpeffer ..	200	47	13th	30	13, 16, 19	41·3	30·4	35·9	- 1·3	7	0·96	24	+ 7	2·5	+ 0·4	27	•	•	•	•	•	•	Strathpeffer.
land. *p* Glencarron ..	500	39	13th	22	19th	37·1	28·9	33·0	- 3·5	7	1·35	34	- 11	•	•	•	•	•	•	•	•	•	
p Fort Augustus..	68	43	13th	27	19th	39·7	31·0	35·4	- 2·6	6	2·13	54	+ 28	1·5	+ 0·1	16	•	•	•	•	•	•	Fort Augustus.
p Fort William ..	171	44	13th	26	19th	40·9	31·7	36·3	- 2·8	6	3·26	83	+ 37	•	•	•	•	•	•	•	•	•	
1. SCOTLAND, E.																						
p Gordon Castle ..	101	45	13th	29	19th	41·0	31·4	36·2	- 2·1	6	1·35	34	+ 21	4·9	—	54	6	23	35·1	-0·2	38·4	+1·2	Crathes.
a Nairn	82	40	13th	30	15, 16	38·4	31·3	34·9	- 2·5	7	1·43	36	+ 25	*3·6*	—	*40*	•	•	•	•	•	•	*Gordon Castle.*
a Aberdeen ..	46	45	13th	32	13th	41·4	33·4	37·4	- 0·5	4	0·91	23	+ 10	2·9	—	32	•	•	•	•	•	•	Nairn.
a Balmoral ..	930	43	13, 14	26	18th	39·0	28·6	33·8	- 0·2	5	1·18	30	+ 13	4·5	+ 2·0	49	•	•	•	•	39·7	+1·0	Aberdeen.
p Crieff	432	44	13, 19	30	15th	40·1	32·0	36·1	- 1·8	6	1·43	33	+ 15	•	•	•	7	19	•	•	○	•	Balmoral.
														•	•	○	•	•	•	•	•	•	Balruddery.
a Leith	18	44	15th	32	15, 16	42·0	34·6	38·3	- 0·9	4	0·83	21	+ 12	•	•	•	•	•	•	•	•	•	
a West Linton ..	769	40	15, 16	28	17th	38·0	29·7	33·9	- 1·1	6	1·75	44	—	*1·9*	—	*30*	7	22	•	•	•	•	*West Linton.*
p Marchmont ..	498	46	13th	29	14th	40·4	31·1	35·8	- 1·2	7	1·45	37	+ 24	3·0	+ 0·7	32	5	24	•	•	•	•	Marchmont.
a Edinburgh ..	*441*	*47*	*15th*	*32*	*14, 15, 18*	*42·3*	*32·6*	*37·5*	—	*5*	*0·81*	*21*	—	2·8	—	30	3	28	•	•	•	•	Edinburgh.
6. *a* SCOTLAND, W.																						
a Poltalloch	132	44	15th	32	15, 19	40·4	33·1	36·8	- 2·0	6	2·80	71	+ 42	•	•	•	•	•	•	•	•	•	
p Glasgow Observatory	180	46	13th	33	14–16, 18	41·4	33·6	37·5	- 1·1	6	1·77	45	+ 28	2·0	+ 0·5	22	1	28	•	•	•	•	Glasgow.
p Rothesay	170	47	13th	32	14–16	42·3	32·9	37·6	- 2·0	7	2·65	67	+ 45	*1·6*	—	*17*	5	26	37·0	•	41·3	-0·5	*Rothesay.*
a Kilmarnock ..	90	46	15th	32	15, 17	42·7	33·3	38·0	- 0·8	6	1·88	48	—	*1·5*	—	*16*	•	•	•	•	•	•	*Kilmarnock.*
a Colmonell	170	49	18th	33	17th	43·1	34·9	39·0	+ 0·6	6	1·05	27	+ 4	•	•	•	1	28	•	•	•	•	
a Dumfries	160	48	16th	32	14, 17, 19	45·0	33·1	39·1	+ 0·3	6	1·16	29	+ 10	*2·3*	—	*24*	4	28	37·6	•	41·0	•	*Dumfries.*
Eskdalemuir ..	*799*	*42*	*15th*	*26*	*13th*	*39·4*	*29·7*	*34·6*	—	*6*	*1·69*	*43*	—	*2·7*	—	*29*	•	•	•	•	•	•	*Eskdalemuir.*
p Cally, Gatehouse ..	120	47	18th	32	14–18	42·3	33·0	37·7	- 0·8	6	2·19	56	+ 31	•	•	•	•	•	•	•	•	•	
b, I. OF MAN. *p* Douglas	277	51	18th	31	14th	47·6	35·6	41·6	+ 1·3	6	1·11	28	+ 8	2·3	- 0·1	24	0	31	•	•	•	•	Douglas.
2. ENGLAND, N.E.																						
a Alnwick Castle ..	210	45	13–15	31	15th	43·0	33·4	38·2	+ 0·1	5	0·69	18	+ 6	3·4	—	37	4	25	35·7	-0·7	39·9	+1·5	Cockle Park.
a Tynemouth	71	48	15th	32	15th	44·0	34·6	39·3	+ 0·4	3	0·55	14	+ 5	•	•	•	•	•	•	•	•	•	*Tynemouth.*
p Durham	336	48	16th	31	15, 19	44·0	32·9	38·5	+ 1·0	4	0·70	18	+ 9	3·7	+ 1·4	39	4	25	•	•	•	•	Durham.
a, North .. *p* Rounton	249	51	16th	30	15th	45·7	33·0	39·4	+ 2·1	6	0·57	14	+ 4	•	•	•	6	26	37·6	•	•	•	Rounton.
a West Witton ..	*605*	*49*	*15th*	*31*	*15th*	*42·6*	*33·6*	*38·1*	—	*6*	*1·61*	*41*	—	•	•	•	5	27	37·0	•	40·3	•	*West Witton.*
p Scarborough ..	100	49	13th	32	15th	45·9	35·4	40·7	+ 1·5	4	0·61	15	+ 4	4·0	—	43	•	•	•	•	43·0†	•	Scarborough.
p York	58	49	14th	31	15th	46·0	34·9	40·5	+ 2·0	5	0·60	15	+ 5	2·2	+ 0·2	23	•	•	39·1	+1·5	42·6	+2·5	York.
a Spurn Head ..	26	51	15th	31	15, 16	45·0	36·0	40·5	+ 1·6	6	0·67	17	+ 9	*2·5*	—	*37*	•	•	•	•	•	•	*Spurn Head.*
b, South .. *a* Lincoln	58	52	15th	32	15, 18	47·5	34·3	40·9	+ 2·5	6	0·56	14	+ 5	•	•	•	•	•	38·7	+2·4	43·1	+3·9	Lincoln.
a Fulbeck	180	52	15th	31	15th	46·1	34·3	40·2	+ 1·6	7	0·67	17	+ 8	2·9	—	30	4	27	40·0	+1·5	43·7	+2·1	Rauceby.
														3·5	—	36	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																						
p Cromer	196	53	15th	32	15, 16	47·9	34·3	41·1	+ 3·8	5	0·61	16	—	3·4	—	35	•	•	•	•	•	•	Cromer.
p Little Massingham ..	280	52	16th	31	15, 18	46·9	33·0	40·0	+ 2·0	6	1·00	25	+ 14	2·5	0·0	26	6	22	•	•	•	•	Lit. Massingham.
a, North .. *a* Yarmouth ..	13	54	15, 16	33	15, 18	49·6	35·0	42·3	+ 4·4	6	0·96	24	+ 15	3·5	—	36	•	•	40·1	+2·4	44·3	+3·2	Yarmouth.
a Norwich	93	54	15th	33	15th	47·7	35·6	41·7	+ 3·7	6	1·18	30	—	*3·0*	—	*31*	4	28	38·6	•	•	•	*Norwich.*
a Geldeston	37	55	15th	32	15th	49·3	35·3	42·3	+ 3·7	6	1·17	30	+ 21	3·1	+ 0·5	32	•	•	•	•	•	•	Geldeston.
p Cambridge	41	54	16th	32	15th	50·7	34·9	42·8	+ 4·1	6	1·23	31	+ 22	3·6	+ 1·0	37	4	27	40·3	+1·9	43·6	+2·7	Cambridge.
b, South .. *a* Clacton-on-Sea ..	54	52	13, 15, 16	34	15, 16	49·6	37·1	43·4	+ 4·7	5	1·02	26	—	3·4	—	35	1	30	41·4	+2·1	44·2	+1·5	Clacton.
a Rothamsted	424	52	15th	32	15th	47·6	34·9	41·3	+ 3·3	7	1·12	28	+ 17	3·7	+ 1·3	38	4	27	40·2	•	•	•	Rothamsted.
p Tottenham	51	53	16th	34	15th	51·0	37·9	44·5	+ 5·1	5	1·26	32	—	3·2	—	33	0	31	•	•	44·9	+2·7	Tottenham.
4. MIDLAND COUNTIES.																						
a North .. *a* Harrogate	479	51	15th	31	15th	44·0	33·4	38·7	+ 1·4	6	1·16	30	+ 17	2·1	—	22	0	31	38·5	+0·9	40·9	+1·9	Harrogate.
p Buxton	*987*	*47*	*18th*	*30*	*15th*	*41·3*	*33·3*	*37·3*	*+ 1·5*	*7*	*2·50*	*64*	*+ 40*	*1·2*	—	*13*	1	29	36·0	-0·5	41·1	+0·7	*Buxton.*
														2·1	—	22	1	28	38·6	+1·6	42·4	+2·5	Sheffield.
a Bawtry	65	53	15th	32	15th	46·0	34·4	40·2	+ 1·6	7	0·76	19	+ 10	1·8	- 0·2	19	5	25	38·8	•	41·7	•	Worksop.
a Nottingham	82	52	15, 18	31	13th	48·6	34·0	41·3	+ 2·8	7	1·14	29	+ 19	2·4	—	25	3	29	38·6	+1·8	40·4	+2·1	Nottingham.
b, East .. *p* Birmingham, Edgbsn.	535	52	18th	32	15th	48·3	35·3	41·8	+ 3·6	7	1·09	25	+ 14	2·6	—	29	3	28	40·1	+0·8	44·5	+1·6	Birmingham.
a Raunds	203	53	13, 15	30	15th	49·9	33·6	41·8	+ 3·4	7	1·46	37	—	*3·2*	—	*33*	5	25	41·1	•	45·4	•	*Raunds.*
p Oxford	208	53	16th	33	15th	50·1	36·1	43·1	+ 3·7	6	1·13	29	+ 19	4·0	+ 1·7	41	5	25	•	•	•	•	Oxford.
a Cheadle	646	50	15th	30	15th	44·1	32·7	38·4	+ 1·0	7	1·33	34	+ 21	•	•	•	3	28	•	•	•	•	Cheadle.
p Shrewsbury ..	191	54	18th	32	15th	50·7	35·6	43·2	+ 3·7	6	0·96	24	—	•	•	•	3	28	•	•	•	•	Shrewsbury.
c, West .. *a* Hereford§ ..	291	52	15, 18	31	15th	48·1	35·9	42·0	+ 2·8	6	0·94	24	+ 11	*3·7*	—	*39*	3	29	39·9	•	42·7	•	*Malvern.*§
a Cirencester ..	446													•	•	•	•	•	•	•	•	•	Cirencester.
a Bath	66	55	15th	33	15th	51·0	39·3	45·2	+ 5·0	5	1·44	37	+ 24	3·1	•	32	•	•	42·5	+2·8	44·9	+2·0	Bath.
5. ENGLAND, S.E.																						
a Marlborough ..	424	52	15th	31	16th	48·6	34·4	41·5	+ 3·2	6	1·74	44	+ 30	3·9	—	40	1	28	43·1	+3·8	45·6	+3·1	Worthing.
a Margate	53	54	14–16	34	15th	51·1	37·3	44·2	+ 4·5	6	0·93	24	+ 15	2·8	+ 0·7	29	3	24	42·4	•	45·0	•	Marlborough.
a Wisley, Surrey ..	150	53	15th	33	15th	50·3	37·6	44·0	+ 4·2	6	0·89	23	—	3·1	+ 0·6	32	0	32	42·2	+3·2	44·2	+3·3	Margate.
p Salisbury (Wilton) ..	180	53	15th	33	15th	51·4	36·6	44·0	+ 5·0	6	1·54	39	+ 24	4·2	—	43	3	27	42·0	+3·7	44·1	+2·2	Wisley.
a Tunbridge Wells ..	354	53	13th	34	15, 18	50·3	35·9	43·1	+ 4·5	7	1·02	26	+ 12	•	•	•	2	30	42·6	•	•	•	Salisbury.
														3·1	+ 0·8	32	3	26	42·4	+5·0	44·3	•	Tunbridge Wells.
a Dungeness	21	51	13th	36	18th	49·4	39·7	44·6	+ 5·0	3	1·06	27	+ 17	•	•	•	•	•	•	•	•	•	Littlestone.
p Hastings.. ..	178	53	13th	35	18th	48·9	37·1	43·5	+ 3·6	7	1·09	28	+ 15	4·0	+ 1·3	41	2	28	42·1	•	44·6	•	Hastings.
p Southampton	64	53	13, 18	35	14th	51·3	38·1	44·7	+ 3·6	6	1·41	36	+ 23	3·4	+ 0·8	35	1	29	•	•	•	•	Southampton.
a Ventnor	59	52	13–16	38	17th	51·4	42·7	47·1	+ 5·3	6	1·12	28	+ 15	3·8	+ 1·0	39	•	•	•	•	•	•	Ventnor.
LONDON. *p* Kew	18	53	16th	33	15th	50·9	37·0	44·0	+ 4·5	6	1·02	26	+ 16	3·8	+ 1·8	39	1	30	41·9	+3·8	44·6	+2·7	Kew.
a Westminster ..	*27*	*54*	*13, 15*	*33*	*15th*	*51·1*	*39·0*	*45·1*	*+ 5·6*	*6*	*1·03*	*26*	*+ 16*	*3·0*	*+ 1·8*	*31*	0	31	•	•	•	•	*Westminster.*
a Greenwich ..	*155*	*53*	*13, 15*	*33*	*15th*	*50·6*	*37·0*	*43·8*	*+ 4·4*	*7*	*1·00*	*25*	*+ 16*	*2·8*	*+ 0·8*	*29*	2	29	•	•	•	•	*Greenwich.*
a Hampstead ..	*460*	*51*	*13, 15*	*31*	*15th*	*49·0*	*35·0*	*42·0*	—	*7*	*1·35*	*34*	—	*3·8*	—	*37*	5	25	•	•	•	•	*Hampstead.*
a Camden Square	*110*	*54*	*13th*	*33*	*15th*	*52·3*	*37·3*	*44·8*	—	*7*	*1·17*	*30*	—	*3·5*	—	*36*	2	30	•	•	•	•	*Camden Square.*
7. *a*, ENGLAND, N.W.																						
p Aspatria	250	47	16, 18	32	15, 19	44·3	33·7	39·0	+ 1·3	6	2·35	60	+ 46	1·4	—	16	•	•	•	•	•	•	Hoylake.
p Newton Rigg ..	559	50	16th	32	14–17, 19	44·7	32·9	38·8	+ 2·2	6	1·82	46	+ 27	1·9	—	20	2	30	39·4	•	43·2	•	Aspatria.
p Stonyhurst	375	50	16th	33	15th	45·7	35·0	40·4	+ 2·2	6	1·61	41	+ 21	2·0	- 0·1	21	6	26	37·9	+0·4	40·7	+1·4	Newton Rigg.
p Blackpool	66	49	15th	30	17th	45·6	35·6	40·6	+ 1·6	6	1·12	28	+ 14	1·2	- 0·8	13	0	31	•	•	•	•	Stonyhurst.
a Southport	*37*	*51*	*15th*	*33*	*15th*	*45·9*	*37·3*	*41·6*	*+ 2·4*	*6*	*0·87*	*22*	*+ 9*	*2·3*	*+ 0·1*	*24*	0	31	41·7	•	45·0	•	Blackpool.
a Liverpool (Bidston) ..	188	53	15th	32	15th	47·3	35·4	41·4	+ 2·2	6	0·83	21	+ 10	*1·9*	*- 0·4*	*20*	0	31	39·7	+2·7	41·6	+2·5	*Southport.*
a Hawarden Bridge ..	22	54	15, 18	35	15th	47·7	36·9	42·3	+ 2·1	7	0·84	21	+ 12	*1·7*	—	*18*	1	30	38·8	+1·4	43·5	+2·5	*Liverpool.*
p Manchester (Whit. Pk.)	126	53	16th	32	15th	47·1	36·1	41·6	+ 2·0	7	1·64	42	+ 31	*0·8*	—	*8*	•	•	•	•	•	•	*Manchester (City)*
														0·6	*- 0·9*	*6*	•	•	•	•	•	•	*" (Whit. Park)*
b NORTH WALES.																						
p Llandudno	71	53	16th	33	19th	49·6	36·1	42·9	+ 1·6	6	0·68	17	+ 4	1·8	- 0·6	19	•	•	•	•	•	•	Llandudno.
Holyhead ..	15	52	15th	36	15th	47·3	39·6	43·5	+ 2·1	6	0·99	25	+ 19	*1·8*	—	*19*	•	•	•	•	•	•	*Holyhead.*
p Bettws-y-Coed ..	148	52	18th	33	19th	48·4	35·9	42·2	+ 1·8	6	2·52	64	—	1·7	—	18	•	•	41·3	+2·2	44·6	+2·5	Bettws-y-Coed.
														2·1	—	22	•	•	•	•	•	•	Aberdovey.

† At 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Difference from Aver'ge	Rainfall. No. of Rain-Days.	Rainfall in the week.	Difference from Average.	Bright Sunshine. Hours per Day. Daily Mean	Difference from Average.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Difference from average.	Earth 4 ft. Mean.	Difference from average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES.														1·5	—	16	•	•	•	•	•	•	Aberystwyth.
a Llangammarch Wells	550	50	15, 18	29	15th	46·9	35·8	41·4	+ 3·4	6	3·16	80	—	2·1	—	22	2	28	40·8	+1·8	44·9	+1·9	Llangammarch.
a Pembroke	149	53	15th	30	17th	48·9	40·9	44·9	+ 2·9	6	1·42	36	+ 20	2·7	+ 0·1	28	•	•	•	•	•	•	Pembroke.
p Cardiff	202	51	13, 16	32	15th	49·0	36·7	42·9	+ 3·1	7	2·53	64	+ 45	*3·7*	—	*38*	1	30	42·1	+2·6	45·0	+3·0	*Cardiff.*
b, ENGLAND S.W.																							
a Clifton	229	53	15th	33	15th	49·3	38·3	43·8	+ 3·7	6	1·28	33	+ 19	*3·2*	—	*33*	1	29	•	•	•	•	*Clifton.*
a Shaftesbury	722	51	15th	33	15, 17	48·4	36·6	42·5	+ 4·1	6	1·24	32	+ 18	•	•	•	•	•	42·1	•	44·3	•	Shaftesbury.
a Arlington	613	50	15th	31	15th	47·6	37·6	42·6	+ 3·3	7	3·19	81	+ 57	•	•	•	•	•	•	•	•	•	Arlington.
a Newquay	*190*	*51*	*13, 15, 18*	*39*	*17th*	*50·3*	*43·3*	*46·8*	*+ 3·5*	*7*	*0·92*	*23*	+ 7	2·3	- 0·5	24	0	36	45·8	•	46·9	•	Newquay.
a Cullompton	202	53	13, 15	35	15th	50·6	40·6	45·6	+ 5·2	7	1·66	42	+ 25	2·5	+ 0·1	26	2	30	43·8	•	•	•	Cullompton.
a Portland Bill	19	50	13, 16, 19	41	17th	49·4	43·1	46·3	+ 4·7	6	0·87	22	—	*3·2*	—	*32*	•	•	•	•	•	•	*Weymouth.*
p Plymouth	116	54	13th	38	16th	51·6	41·6	46·6	+ 4·5	7	1·35	34	+ 17	2·6	- 0·1	26	•	•	44·6	•	46·8	•	Plymouth.
a Falmouth	167	53	13th	37	17th	51·3	41·7	46·5	+ 3·4	7	1·68	43	+ 21	2·4	- 0·5	24	0	33	46·2	+4·8	47·3	•	Falmouth.
9. IRELAND. N.																							
a, West .. { *a* Malin Head	208	47	18th	33	15, 16	43·6	34·6	39·1	- 1·7	6	2·17	55	+ 41	*2·6*	—	*28*	•	•	•	•	•	•	*Malin Head.*
a Blacksod Point ..	?	52	15, 17	32	15th	47·6	35·0	41·3	- 1·3	6	1·34	34	+ 11	•	•	•	•	•	•	•	•	•	•
p Markree Castle ..	122	52	18th	31	14th	48·0	33·3	40·7	+ 0·7	6	1·87	47	+ 28	1·8	- 0·4	19	3	30	40·4	•	44·2	•	Markree Castle.
a Birr Castle	175	54	18th	33	14, 15	47·7	36·4	42·1	+ 1·8	7	2·05	52	+ 39	*1·3*	- *1·0*	*14*	•	•	•	•	•	•	*Birr Castle.*
b, East .. { *p* Armagh	196	52	18, 19	31	16th	47·9	36·0	42·0	+ 2·2	6	1·21	31	+ 18	2·8	+ 0·6	30	0	31	39·5	-0·7	43·1	+0·5	Armagh.
a Donaghadee ..	101	51	18th	32	15th	44·3	33·9	39·1	- 1·5	7	1·18	30	+ 16	•	•	•	•	•	•	•	•	•	•
10. IRELAND. S.														•	•	•	2	28	41·9	+0·7	44·5	+1·3	Trinity Coll.
p Dublin, City	47	54	16, 18	35	14, 15, 17	49·9	37·0	43·5	+ 1·3	7	1·13	29	+ 16	3·2	+ 0·7	33	0	31	•	•	•	•	Phœnix Park
a, East .. { *a* Kilkenny	212	54	15, 18	31	15th	49·4	37·3	43·4	+ 2·5	7	2·02	51	+ 35	•	•	•	0	31	•	•	•	•	Dublin City.
a Waterford	20	56	19th	33	15th	49·6	38·9	44·3	+ 2·8	6	1·28	33	+ 12	•	•	•	•	•	•	•	•	•	•
a Seskin, Carrick-on-Suir	*541*	*53*	*15, 16, 18*	*29*	*15th*	*49·1*	*34·1*	*41·6*	—	*7*	*1·92*	*49*	—	*2·8*	—	*29*	1	30	•	•	•	•	*Seskin.*
b, West .. { *a* Birr Castle	175	54	18th	33	14, 15	47·7	36·4	42·1	+ 1·8	7	2·05	52	+ 39	1·3	- 1·0	14	•	•	•	•	•	•	Birr Castle.
a Foynes	50	55	15th	33	14, 15	48·3	37·3	42·8	+ 0·3	7	3·14	80	+ 61	•	•	•	•	•	•	•	•	•	•
a Cahir	199	56	18, 19	30	15th	50·6	36·4	43·5	+ 2·1	7	2·39	61	—	•	•	•	•	•	•	•	•	•	•
a Killarney	174	55	15, 18	34	15th	50·1	37·9	44·0	+ 1·4	7	2·07	53	+ 22	•	•	•	•	•	•	•	•	•	•
a Valencia	30	53	15, 18	34	15th	49·6	40·0	44·8	+ 0·5	7	1·93	49	+ 18	1·2	- 1·3	12	•	•	•	•	•	•	Valencia.
a Roche's Point ..	32	55	18th	36	15, 17	49·1	40·1	44·6	+ 1·2	7	1·46	37	+ 14	2·1	—	22	•	•	•	•	•	•	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	52	15, 19	38	17th	50·9	43·7	47·3	+ 2·1	7	1·61	41	+ 24	2·4	- 0·6	24	•	•	•	•	•	•	Scilly.
a Jersey, St. Aubins ..	25	53	13th	40	18th	51·9	43·7	47·8	+ 5·1	6	1·07	27	+ 13	2·1	- 1·1	21	•	•	•	•	•	•	St. Heliers.
a Guernsey (Villa Carey)	180	52	13th	40	17th	51·0	44·3	47·7	+ 4·3	7	1·29	33	+ 16	2·4	- 0·6	24	0	37	46·1	+3·8	47·1	+2·4	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, February 19th, 1916.

District and Station.	Height. Above Mean Sea Level.	Above Ground.	Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.	Date and Hour.	Highest Gust with Date and Time.
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.	m/s. d. h. m.
1. SCOTLAND, E.														
Dyce	220	75	‡15**	—	—	—	—	29	117	22	0	NNW. 7	16th 12h.	20 16th 11 . 5
Aberdeen*	153	105	37 ‡	—	—	14 to 17	15	82	64	7	0	WNW. 12	16th 13h.	25 16th 11 . 18
Edinburgh	485	39	52 † 31	16th	1	13 to 17	14	90	36	8	19	SW. by W. 18	16th 8h.	33 16th 7 . 35
6. SCOTLAND, W.														
Eskdalemuir	850	50	22	13, 16	7	13 to 17	56	46	40	19	0	WSW. 24	16th 9h.	34 16th 8 . 3
Paisley	188	81	52	—	—	16th	4	47	79	38	0	W. by N. 13	16th 8h.	31 16th 8 . 33
2. ENGLAND, N.E.														
Alnwick Castle	340	70	17	—	—	16th	2	23	87	53	0	SW. by W. 13	16th 9h.	28 16th 9 . 23
South Shields	72	61	12	16th	3	14, 16, 17	20	58	62	22	3	W. 21	16th 10h.	34 16th 10 . 25
Spurn Head	66	40	‡	16th	6	14 to 19	55	68	41	0	0	— 23	16th 13h.	33 16th 12 . 53
3. ENGLAND, E.														
Gorleston	52	42	‡	—	—	16, 17	10	99	56	3	0	— 15	16th 14h.	25 16th 13 . 53
Shoeburyness	103	90	‡	16th	4	14 to 17	41	87	36	0	0	W. 19	16th 14h.	34 16th 13 . 40
4. MIDLAND COUNTIES.														
Benson	270	84	‡	—	—	14 to 18	31	90	39	8	0	W. 17	16th 13h.	29 16th 12 . 39
5. ENGLAND, S.E.														
Dover	271	40	‡	15, 16	3	13 to 17	44	81	23	0	17	— 18	15th 8h.	28 15th 7 . 39
Warlingham	642	33	‡	—	—	14, 16	5	75	76	12	0	— 12	16th 10h.	31 16th 12 . 27
Brighton	261	53	6	—	—	14 to 17	43	52	23	9	41	— 17	16th 14h.	26 16th 13 . 40
Kew	82	65	6 †	—	—	14, 16	14	86	62	0	6	W. 15	13th 13h.	30 16th 9 . 43
South Kensington ..	123	92	22 † 30	—	—	—	—	26	121	21	0	W. 9	16th 14h.	21 14th 14 . 27
7. ENGLAND, N.W.														
Carnforth	246	56	23	16th	3	14, 16	18	64	59	24	0	WSW. 18	16th 10h.	29 16th 9 . 30
Southport	80	62	48	14 to 17	41	13 to 15, 17 to 19	56	46	23	2	0	W. by S. 26	16th 10h.	36 16th 10 . 36
Holyhead*	60	40	‡	14, 16, 17	32	13 to 19	59	63	14	0	0	W. by S. 25	16th 10h.	39 16th 9 . 37
8. ENGLAND, S.W.														
Pendennis Castle§ ..	256	65	24	13 to 16, 18	48	13 to 19	63	42	10	5	0	WSW. 27	14th 24h.	36 15th 0 . 50
Plymouth	185	88	2	14, 15	3	13 to 16, 18	32	89	35	9	0	— 21	15th 1h.	30 15th 1 . 15
10. IRELAND, S.														
Quilty	100	40	‡	14 to 16	22	13 to 19	79	44	16	7	0	— 22	16th 8h.	35 16th 8 . 11
Weaver Pt.	160	30	‡	—	—	—	—	—	—	—	—	— —	— —	— —
11. ENGLISH CHANNEL.														
Scilly*	150	32 19	‡	14 to 19	58	13 to 19	69	25	12	4	0	W. by N. 24	15th 2h.	34 15th 1 . 52

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.
† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew), and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Average for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the averages for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the difference of the mean temperature from the average are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Averages* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

SEVENTH WEEK—February 13th to February 19th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Difference from Av. (25 Yrs.)	Accumulated Number of Day-Degrees. Above 42°	Accumulated Number of Day-Degrees. Difference from Av. (25 Yrs.)	Accumulated Number of Day-Degrees. Below 42°	Accumulated Number of Day-Degrees. Difference from Av. (25 Yrs.)	Number of Rain-Days.	Difference from Average. (25 Years.)	Total Fall.		Difference from Average. (25 Years.)	Daily Mean.	Diff. from Av. (25 Yrs.)	Percentage of Possible Duration.	
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	45	22	77·4	72·7	75·1	− 0·9	0	− 7	44	+ 3	6	+ 1	1·57	40	+ 11	2·3	+0·2	26	993
Eastern.																			
1. SCOTLAND, EAST ...	46	26	77·4	72·7	75·1	− 0·5	0	− 8	43	− 3	6	+ 2	1·29	33	+ 20	3·6	+1·0	40	995
2. ENGLAND, N.E.	52	30	80·3	74·3	77·3	+ 0·7	9	− 1	30	− 5	5	+ 2	0·62	16	+ 7	3·3	+0·6	35	1000
3. ENGLAND, EAST ...	55	31	82·4	74·8	78·7	+ 2·5	30	+ 19	19	− 20	6	+ 3	1·06	27	+ 18	3·3	+0·5	34	1004
4. MIDLAND COUNTIES ...	55	30	81·9	74·7	78·3	+ 1·7	17	+ 4	29	− 10	6	+ 3	1·13	29	+ 18	2·6	+0·2	27	1004
5. ENGLAND, S.E.	54	31	83·3	76·1	79·7	+ 2·4	33	+ 19	12	− 18	6	+ 2	1·19	30	+ 18	3·6	+0·9	37	1007
Western.																			
6. SCOTLAND, WEST ...	51	31	79·2	73·9	76·6	− 0·2	3	− 6	30	− 4	6	+ 2	1·83	46	+ 22	2·2	0·0	23	998
7. ENGLAND, N.W.	54	30	81·2	75·1	78·2	+ 1·0	13	+ 2	26	− 4	6	+ 2	1·44	37	+ 23	1·8	−0·6	19	1003
8. ENGLAND, S.W.	54	29	82·6	77·1	79·8	+ 1·8	27	+ 10	8	− 16	7	+ 4	1·84	47	+ 29	2·3	−0·3	24	1009
9. IRELAND, NORTH ...	54	31	81·1	74·6	77·8	+ 0·1	13	− 2	28	+ 2	6	+ 2	1·64	42	+ 25	2·3	−0·1	24	1000
10. IRELAND, SOUTH ...	56	30	82·7	76·3	79·5	+ 1·0	29	+ 8	11	− 10	7	+ 3	1·94	49	+ 29	2·0	−0·7	20	1008
11. ENGLISH CHANNEL ...	53	38	83·7	79·6	81·7	+ 2·1	39	+ 15	0	− 11	7	+ 2	1·32	34	+ 18	2·3	−0·9	23	1013

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 12 Weeks, November 28th, 1915, to February 19th, 1916.

0. SCOTLAND, NORTH ...	53	16	79·5	74·7	77·2	+ 0·6	110	+ 17	303	−101	74	+10	22·03	559	+158	0·9	0·0	13	1000
Eastern.																			
1. SCOTLAND, EAST ...	57	8	79·5	73·9	76·8	+ 0·7	103	+ 9	394	− 86	60	+12	11·75	299	+115	1·5	0·0	21	1002
2. ENGLAND, N.E.	60	22	81·0	75·5	78·3	+ 1·4	201	+ 91	233	−147	51	+ 7	7·73	198	+ 65	1·8	+0·2	23	1006
3. ENGLAND, EAST ...	58	21	81·7	76·1	79·0	+ 2·4	256	+137	191	−242	54	+ 9	7·93	200	+ 74	1·7	+0·1	21	1011
4. MIDLAND COUNTIES ...	59	18	81·7	75·6	78·7	+ 2·1	253	+119	224	−211	55	+10	9·22	236	+ 83	1·5	0·0	19	1011
5. ENGLAND, S.E.	63	17	82·4	77·1	79·8	+ 2·2	334	+161	120	−199	58	+13	11·73	299	+135	1·7	0·0	21	1012
Western.																			
6. SCOTLAND, WEST ...	54	21	80·4	75·6	78·1	+ 0·7	154	+ 18	222	− 91	72	+17	16·56	421	+ 83	1·3	0·0	17	1005
7. ENGLAND, N.W.	58	23	81·4	76·5	79·0	+ 1·5	218	+ 79	171	−135	65	+15	13·19	335	+119	1·2	−0·1	15	1007
8. ENGLAND, S.W.	58	22	82·4	77·7	80·2	+ 1·7	331	+109	86	−149	65	+14	16·82	430	+159	1·4	−0·3	17	1011
9. IRELAND, NORTH ...	56	19	81·6	76·1	78·9	+ 0·9	230	+ 61	261	− 69	72	+14	12·62	319	+ 75	1·6	+0·1	20	1004
10. IRELAND, SOUTH ...	59	20	82·6	76·9	79·9	+ 1·0	340	+ 79	121	− 84	71	+16	13·88	351	+ 69	1·6	−0·2	20	1008
11. ENGLISH CHANNEL ...	57	30	83·6	79·7	81·7	+ 1·4	489	+147	10	− 71	67	+ 9	13·95	354	+121	1·8	−0·4	21	1014

THE YEAR.—Aggregates, &c., for the Period of 7 Weeks, January 2nd to February 19th, 1916.

0. SCOTLAND, NORTH ...	53	22	80·4	75·4	78·0	+ 1·7	102	+ 55	132	−125	44	+ 7	15·25	387	+156	1·3	+0·2	17	1001
Eastern.																			
1. SCOTLAND, EAST ...	57	20	80·6	74·7	77·7	+ 1·7	96	+ 43	189	−104	32	+ 4	5·91	151	+ 51	2·2	+0·5	28	1005
2. ENGLAND, N.E.	60	27	81·9	76·1	79·1	+ 2·4	160	+ 99	104	−130	23	− 2	2·27	59	− 11	2·2	+0·4	27	1011
3. ENGLAND EAST ...	56	24	82·1	76·2	79·2	+ 2·8	169	+104	99	−166	27	+ 1	3 46	87	+ 19	2 2	+0·2	26	1016
4. MIDLAND COUNTIES ...	58	24	82·2	76·2	79·3	+ 2·8	172	+ 95	101	−161	27	+ 1	3·63	93	+ 7	2·0	+0·3	24	1015
5. ENGLAND, S.E.	57	27	82·6	77·1	79·9	+ 2·6	200	+111	65	−135	31	+ 5	4·00	102	+ 12	2·2	+0·3	25	1018
Western.																			
6. SCOTLAND, WEST ...	54	28	81·2	76·3	78·8	+ 1·7	128	+ 57	94	−106	43	+11	8·83	224	+ 41	1·6	+0·1	20	1009
7. ENGLAND N.W.	58	28	82·2	77·3	79·8	+ 2·6	167	+ 95	65	−127	37	+ 8	6·25	158	+ 41	1·4	−0·1	17	1013
8. ENGLAND, S.W.	57	27	82 5	78·1	80·3	+ 2·1	194	+ 77	38	−113	35	+ 6	7·18	185	+ 42	1·7	−0·2	20	1018
9. IRELAND NORTH ...	56	28	82·2	76·5	79·4	+ 1·6	171	+ 75	89	− 78	42	+ 9	6·34	161	+ 26	1·9	+0·2	23	1009
10. IRELAND, SOUTH ...	59	27	83·1	77·6	80·4	+ 1·7	221	+ 77	48	− 78	43	+12	6·87	174	+ 20	1·8	−0·1	21	1015
11. ENGLISH CHANNEL ...	56	33	83 4	79·7	81·6	+ 1·8	271	+ 98	3	− 57	37	+ 4	5·23	132	+ 12	2·1	−0·3	23	1020
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F			inches.	mm.	m.m.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., February 24th, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 8. SUNDAY, FEBRUARY 20TH, TO SATURDAY, FEBRUARY 26TH, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE EIGHTH WEEK OF 1916.

The period was cold over the country generally. It was mostly fine and dry in Scotland and Ireland, but of an inclement, wintry character in most parts of England, where hail, sleet and snow were of daily occurrence. The snowstorms over the south-eastern quarter being heavier and more general than during many recent winters. On the 23rd snow lay to a depth of 20 cm. at Cambridge; on the 24th 28 cm. at Fulbeck, and 36 cm. at Rauceby; on the 25th 25 cm. at Norwich; and on the 26th 23 cm. at Shaftesbury, and 30 cm. at Little Massingham. Thunder and lightning occurred with the snow at Norwich on the 23rd. The mean temperature for the week was everywhere below the average, by more than 2° A. (3½° F.) in eastern and southern England and southern Ireland, 3° A. (5½° F.) in England South-East, and 3°·2 A. (5¾° F.) in England South-West. At Scilly there was a maximum of 284¾° A. (53° F.) on the 20th, but with this exception there were few instances of temperature above 280¼° A. (45° F.), the great majority being below 277½° A. (40° F.), while some were as low as 273° A. (32° F.) or slightly lower. Though frost was experienced in all districts, there were comparatively few minimum temperatures below 270° A. (27° F.), but on the 20th Balmoral registered 259° A. (7° F.), and West Linton 265° A. (17° F.). Bright sunshine was scanty or very scanty in most parts of England, the Eastern Counties having only one-third their usual duration. Over Northern Scotland it was unusually abundant, the records ranging up to a total of 41 hours at Castlebay (Barra). The temperature of the coastal sea water was rather irregular, and ranged from ½° A. (1° F.) above the normal in some localities to 1° A. (1½° F.) below in others.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		ENGLAND, E.		NORTH WALES.		ENGLAND, S.W.		IRELAND, S.W.	
	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.
		m/s		m/s		m/s		m/s		m/s
South	1	1·2	1	2·6	1	0·9	1	3·2	0	—
North	5	4·6	6	4·5	6	6·1	6	5·9	7	4·7
West	2	4·4	1	0·9	0	—	¼	2·4	0	—
East	4	2·5	6	9·0	7	8·2	7	6·4	7	3·3
Calm	0	—	0	—	0	—	0	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH AVERAGE.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ... Warmth ...	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient
Rainfall ...	Light	Moderate	Heavy	Very heavy	Heavy	Heavy	Light	Light	Moderate	Light	Light	Very heavy
Sunshine ...	Very abundant	Moderate	Scanty	Very scanty	Very scanty	Scanty	Abundant	Abundant	Moderate	Abundant	Moderate	Scanty

II.—THE WINTER SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

WINTER. 13 weeks from Nov. 28th, 1915.	Warmth ...	5, 4, 4	6, 3, 4	6, 5, 2	7, 5, 1	7, 4, 2	7, 5, 1	6, 4, 3	6, 5, 2	7, 4, 2	6, 3, 4	6, 4, 3	8, 3, 2
	Rainfall ...	7, 5, 1	7, 5, 1	7, 3, 3	10, 1, 2	8, 3, 2	9, 2, 2	6, 5, 2	9, 1, 3	9, 2, 2	6, 5, 2	5, 4, 4	9, 1, 3
	Sunshine ...	3, 9, 1	4, 7, 2	4, 7, 2	2, 7, 4	2, 7, 4	3, 6, 4	6, 5, 2	4, 8, 1	0, 8, 5	4, 7, 2	2, 7, 4	0, 5, 8

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1° A. = increment of ⅘° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(7512—19.) Wt. 160—610. 450. 3/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration	Grass Min.		Earth 1 ft.		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts	Lowest Reading.	Mean	Deviation from Average.	Mean.	Deviation from Average.	
	Ft.	°F.		°F.		F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F	°F.	°F.	°F.	
0. SCOTLAND, N.																							
p Baltasound	*31*													*	*	*	*	*	*	*	*	*	*Baltasound.*
a Lerwick	54	43	20th	31	22nd	41·1	33·3	37·2	- 1·0	6	0·41	10	—	3·5	+ 1·3	36	*	*	*	*	*	*	Deerness.
a, Islands .. *a* Stornoway	51	45	20th	31	20, 26	42·4	32·3	37·4	- 1·7	3	0·24	6	- 20	3·6	+ 1·2	37	*	*	*	*	*	*	Stornoway.
a Castlebay, Barra Isd.	*37*	*45*	*20th*	*34*	*20, 24, 25*	*43·0*	*35·6*	*39·3*	*- 1·8*	*3*	*0·17*	*4*	—	*5·8*	—	*60*	*	*	*	*	*	*	*Castlebay.*
a Wick	81	44	25th	28	24th	41·7	32·6	37·2	- 0·6	5	0·18	5	- 8	*	*	*	*	*	*	*	*	*	
b, Main- *p* Strathpeffer	200	42	21, 26	28	20th	40·3	31·3	35·8	- 1·7	2	0·16	4	- 12	3·7	+ 1·3	38	*	*	*	*	*	*	Strathpeffer.
land. *p* Glencarron	500	39	21st	23	22nd	37·6	28·3	33·0	- 3·8	3	0·46	12	- 33	*	*	*	*	*	*	*	*	*	
p Fort Augustus	68	42	21st	23	20, 24	39·7	28·3	34·0	- 4·2	3	0·12	3	- 22	2·0	+ 0·1	21	*	*	*	*	*	*	Fort Augustus.
p Fort William	171	41	21st	23	20th	39·1	28·4	33·8	- 5·4	1	0·01	0	- 44	*	*	*	*	*	*	*	*	*	
1. SCOTLAND, E.																							
p Gordon Castle	101	44	20th	26	23rd	42·3	29·7	36·0	- 2·7	5	0·29	7	- 6	1·9	—	20	5	16	34·7	- 1·3	37·8	+0·5	Crathes.
a Nairn	82	40	20, 25	23	20th	38·9	29·6	34·3	- 3·7	5	0·30	8	- 3	3·3	—	34	*	*	*	*	*	*	Nairn.
a Aberdeen	46	44	20th	25	20, 21	42·0	31·7	36·9	- 1·4	5	0·35	9	- 4	2·8	0·0	29	*	*	*	*	38·9	0·0	Aberdeen.
a Balmoral	930	39	20, 22	7	20th	37·0	24·3	30·7	- 3·6	2	0·23	6	- 11	*	*	*	7	1	*	*	*	*	Balmoral.
p Crieff	432	45	21st	26	20, 21	40·0	28·9	34·5	- 3·8	4	0·23	6	- 14	*	*	*	*	*	*	*	*	*	Balruddery.
a Leith	18	43	21st	30	20, 21	39·9	33·7	36·8	- 2·8	5	0·47	12	+ 3	*	*	*	*	*	*	*	*	*	
a West Linton	769	37	20, 21	17	20, 21	35·0	26·4	30·7	- 4·5	5	0·55	14	—	*1·9*	—	*19*	7	14	*	*	*	*	*West Linton.*
p Marchmont	498	41	21st	26	20, 21	38·1	29·9	34·0	- 3·4	4	0·56	14	+ 1	2·7	+ 0·2	*27*	5	21	*	*	*	*	Marchmont.
a Edinburgh	*441*	*41*	*21st*	*29*	*20th*	*38·4*	*32·3*	*35·4*	—	*4*	*0·20*	*5*	—	1·8	- 0·4	18	4	22	*	*	*	*	Edinburgh.
6. *a* SCOTLAND, W.																							
a Poltalloch	132	43	21, 25	24	24, 25	41·9	28·1	35·0	- 4·0	2	0·02	1	- 21	*	*	*	*	*	*	*	*	*	
p Glasgow Observatory	180	41	21st	30	20th	39·0	32·7	35·9	- 3·1	4	0·09	2	- 15	2·5	+ 0·8	25	5	23	*	*	*	*	Glasgow.
p Rothesay	170	42	21st	30	22nd	39·6	32·0	35·8	- 4·1	2	0·03	1	- 21	*4·1*	—	*41*	7	23	35·4	*	40·0	- 2·0	*Rothesay.*
a Kilmarnock	90	42	20, 21, 25	27	22nd	40·9	30·1	35·5	- 3·5	4	0·06	2	—	*2·9*	—	*29*	*	*	*	*	*	*	*Kilmarnock.*
a Colmonell	170	44	20, 21	23	22nd	42·0	29·9	36·0	- 2·7	1	0·01	0	- 22	*	*	*	7	18	*	*	*	*	
a Dumfries	160	42	20, 21	28	20th	40·1	31·0	35·6	- 3·6	2	0·04	1	- 18	*3·2*	—	*32*	7	22	35·5	*	40·0	*	*Dumfries.*
Eskdalemuir	*799*	*40*	*20th*	*20*	*21st*	*36·6*	*26·3*	*31·5*	—	*4*	*0·13*	*3*	—	*4·1*	—	*41*	*	*	*	*	*	*	*Eskdalemuir.*
p Cally, Gatehouse	120	46	21, 22	24	22nd	42·9	29·6	36·3	- 2·5	1	0·02	1	- 24	*	*	*	*	*	*	*	*	*	
b, I. OF MAN. *p* Douglas	277	43	21st	32	21, 22	41·1	33·4	37·3	- 3·1	0	0·00	0	- 20	4·7	+ 1·9	47	6	26	*	*	*	*	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	42	20th	25	20th	40·0	30·9	35·5	- 3·0	6	0·61	15	+ 2	2·2	—	22	5	21	34·4	- 2·4	39·1	+0·3	Cockle Park.
a Tynemouth	71	41	21st	30	20-22	38·7	32·7	35·7	- 3·5	5	0·39	10	+ 1	*	*	*	*	*	*	*	*	*	*Tynemouth.*
p Durham	336	40	20, 24	24	21st	37·6	29·7	33·7	- 4·3	4	0·48	12	+ 3	1·6	- 1·0	16	6	17	*	*	*	*	Durham.
a, North .. *p* Rounton	249	40	24th	23	20th	38·0	30·0	34·0	- 4·0	6	0·30	8	- 2	*	*	*	5	21	35·8	*	*	*	Rounton.
a West Witton	*605*	*39*	21st	*24*	*21st*	*36·1*	*28·1*	*32·1*	—	*5*	*0·47*	*12*	—	*	*	*	7	17	35·6	*	39·6	*	*West Witton.*
p Scarborough†	100	45	21st	32	21, 24-26	40·9	32·4	36·7	- 2·6	4	0·50	13	+ 2	1·5	—	15	*	*	*	*	43·0	*	Scarborough.
p York	56	43	21st	26	20, 21	40·0	31·0	35·5	- 3·0	6	0·32	8	- 2	1·8	- 0·5	18	*	*	38·3	+0·1	42·0	+1·8	York.
a Spurn Head	26	43	20-22	31	24th	40·3	32·1	36·2	- 3·0	6	1·02	26	+ 18	*1·6*	—	*16*	*	*	*	*	*	*	*Spurn Head.*
b, South .. *a* Lincoln	58	43	21st	26	20th	39·2	30·9	35·1	- 3·8	6	1·52	39	+ 30	*	*	*	*	*	36·1	- 0·8	41·9	+2·5	Lincoln.
a Fulbeck	180	42	21st	25	20th	37·4	29·9	33·7	- 5·6	6	1·58	40	+ 31	1·5	—	15	5	26	38·1	- 0·8	43·1	+1·4	Rauceby.
														1·6	—	16	*	*	*	*	*	*	Skegness.
p Cromer	196	?43	21st	29	25th	?38·9	32·3	?35·6	- 2·1	6	0·67	17	—	1·2	—	12	*	*	*	*	*	*	Cromer.
p Little Massingham	280	43	20th	24	26th	38·0	28·1	33·4	- 5·3	7	1·78	45	+ 35	1·3	- 1·5	13	6	21	*	*	*	*	Lit. Massingham.
a, North .. *a* Yarmouth	13	44	20th	30	25th	39·0	32·1	35·6	- 2·8	5	0·98	25	+ 16	1·3	—	13	*	*	38·3	+0·2	43·6	+2·2	Yarmouth.
a Norwich	93	43	20th	27	20th	38·1	30·3	34·2	- 4·3	6	1·84	47	—	*0·8*	—	*8*	7	21	36·5	*	*	*	*Norwich.*
a Geldeston	37	44	20th	29	20, 25	38·7	31·3	35·0	- 4·2	6	0·84	21	+ 12	0·9	- 2·0	9	*	*	*	*	*	*	Geldeston.
p Cambridge	41	44	20th	26	20th	37·9	29·9	33·9	- 5·3	5	1·07	27	+ 19	0·6	- 2·3	6	7	23	39·0	+0·3	43·1	+1·9	Cambridge.
b, South .. *a* Clacton-on-Sea	54	44	20th	28	25th	38·4	31·3	34·9	- 4·2	6	0·70	18	—	0·8	—	8	5	25	38·7	- 1·3	43·9	+1·1	Clacton.
a Rothamsted	424	42	20th	25	25th	35·6	29·0	32·3	- 6·2	5	0·82	21	+ 10	0·9	- 1·8	9	5	20	37·6	*	*	*	Rothamsted.
p Tottenham	51	44	20, 21	27	25th	39·1	31·1	35·1	- 4·8	4	0·82	21	—	1·3	—	13	5	26	*	*	44·8	+2·4	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate	479	39	21st	26	21st	35·6	29·3	32·6	- 5·1	5	0·30	8	- 5	1·4	—	14	3	24	36·8	- 1·2	40·0	+0·7	Harrogate.
p Buxton	*987*	*38*	*21st*	*27*	*25th*	*34·1*	*28·3*	*31·2*	*- 5·0*	*6*	*0·64*	*16*	*- 8*	*1·3*	—	*13*	7	20	35·4	- 1·6	40·2	- 0·1	*Buxton.*
														0·9	—	9	6	25	36·7	- 0·8	41·8	+1·8	Sheffield.
a Bawtry	65	40	20, 21	25	20th	37·4	30·1	33·8	- 5·3	5	0·61	15	+ 6	1·3	- 1·0	13	4	22	37·4	*	41·2	*	Worksop.
a Nottingham	82	41	20, 21	27	20, 21	37·4	30·0	33·7	- 5·3	5	1·38	35	+ 25	1·5	—	15	4	25	35·1	- 2·4	40·0	+1·3	Nottingham.
b, East .. *p* Birmingham, Edgbsn.	535	39	20-22	27	25th	36·7	30·0	33·4	- 5·4	4	0·64	16	+ 6	0·5	—	5	7	26	37·9	- 1·9	44·0	+1·0	Birmingham.
a Raunds	203	42	20th	25	20, 25	37·0	27·6	32·3	- 6·6	5	1·18	30	—	*1·0*	—	*10*	7	20	41·0	*	44·5	*	*Raunds.*
p Oxford	208	42	20th	26	25th	36·4	30·1	33·3	- 6·5	6	1·11	28	+ 18	0·7	- 1·9	7	7	20	*	*	*	*	Oxford.
a Cheadle	646	42	21st	27	25th	37·0	29·4	33·2	- 4·7	5	0·83	21	+ 8	*	*	*	6	27	*	*	*	*	Cheadle.
c, West .. *p* Shrewsbury	191	45	22nd	27	25th	42·4	30·3	36·4	- 3·6	3	0·22	6	—	*	*	*	7	24	*	*	*	*	Shrewsbury.
a Hereford§	291	42	22nd	28	25, 26	37·9	30·1	34·0	- 5·8	5	0·70	18	+ 6	*1·0*	—	*10*	7	22	37·4	*	42·1	*	*Malvern.§*
a Bath	66	43	20th	28	25th	38·3	30·1	34·2	- 6·2	6	0·08	17	+ 4	1·7	*	17	*	*	39·9	- 0·5	44·7	+1·6	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	?42	20th	21	25th	?37·6	27·7	?32·7	- 6·2	5	0·97	25	+ 11	2·1	—	21	6	22	40·2	- 0·1	45·2	+2·5	Worthing.
a Margate	53	45	20th	28	24, 25	39·7	33·3	36·5	- 3·5	5	0·66	17	+ 8	0·9	- 1·4	9	5	22	39·8	*	44·9	*	Marlborough.
a Wisley, Surrey	150	44	20th	22	20th	37·6	28·4	33·0	- 7·4	5	1·23	31	—	1·7	- 1·1	17	4	27	39·3	- 0·4	43·7	+2·5	Margate.
p Salisbury (Wilton)	180	43	20th	24	25th	36·0	28·0	32·0	- 6·4	4	1·09	27	+ 13	1·3	—	13	6	7	39·1	- 0·1	43·8	+2·2	Wisley.
a Tunbridge Wells	354	44	20th	19	25th	37·7	26·9	32·3	- 6·7	4	1·67	42	+ 29	*	*	*	6	19	38·9	*	*	*	Salisbury.
														1·1	- 1·6	11	6	13	39·4	+1·0	43·9	*	Tunbridge Wells.
a Dungeness	21	46	20th	29	24th	38·4	31·0	34·7	- 5·3	4	1·02	26	+ 17	*	*	*	*	*	*	*	*	*	Littlestone.
p Hastings	178	45	20th	25	25th	38·1	34·0	34·6	- 5·7	4	1·61	41	+ 28	2·1	- 1·1	21	5	22	39·2	*	44·3	*	Hastings.
p Southampton	64	43	20th	23	25th	38·1	30·9	34·5	- 7·2	6	0·96	24	+ 11	1·9	- 1·0	19	5	20	*	*	*	*	Southampton.
a Ventnor	59	45	20th	29	25, 26	40·0	33·1	36·6	- 5·4	5	1·42	36	+ 23	1·8	- 1·4	18	*	*	*	*	*	*	Ventnor.
LONDON. *p* Kew	18	44	20th	26	25th	37·8	30·7	34·3	- 5·7	5	0·79	20	+ 10	0·9	- 1·3	9	6	23	38·7	- 0·5	44·4	+2·2	Kew.
a Westminster	*27*	*44*	*20th*	*27*	*25th*	*39·0*	*32·6*	*35·8*	*- 4·2*	*4*	*1·14*	*29*	*+ 19*	*0·8*	*- 0·6*	*8*	1	29	*	*	*	*	*Westminster.*
a Greenwich	*155*	*44*	*20th*	*25*	*25th*	*38·3*	*29·7*	*34·0*	*- 6·2*	*5*	*1·30*	*33*	*+ 23*	*1·2*	*- 1·0*	*12*	6	25	*	*	*	*	*Greenwich.*
a Hampstead	*460*	*41*	*20th*	*23*	*25th*	*35·3*	*29·0*	*32·2*	—	*5*	*1·27*	*?32*	—	*1·5*	—	*15*	7	16	*	*	*	*	*Hampstead.*
a Camden Square	*110*	*43*	*20th*	*27*	*25th*	*38·2*	*30·7*	*34·8*	—	*5*	*1·00*	*25*	—	*1·2*	—	*12*	5	27	*	*	*	*	*Camden Square.*
7. *a*, ENGLAND, N.W.																							
p Aspatria	250	41	21, 24	26	21st	38·9	29·6	34·3	- 3·7	2	0·04	1	- 13	3·0	—	30	*	*	*	*	*	*	Hoylake.
p Newton Rigg	559	40	21st	24	21st	37·6	29·0	33·3	- 3·7	2	0·05	1	- 17	3·2	—	32	7	20	37·4	*	42·5	*	Aspatria.
p Stonyhurst	375	42	20, 21	28	21st	38·3	31·1	35·2	- 3·4	3	0·29	7	- 13	3·0	+ 0·6	30	7	22	36·4	- 1·8	40·0	+0·6	Newton Rigg.
p Blackpool	66	43	21st	28	21st	40·3	32·3	36·3	- 3·0	0	0·00	0	- 13	3·5	+ 1·2	35	6	23	*	*	*	*	Stonyhurst.
a Southport	*37*	*44*	*21st*	*31*	*20, 21, 23*	*40·6*	*32·3*	*36·5*	*- 3·0*	*2*	*0·04*	*1*	*- 12*	4·1	+ 1·6	41	6	18	39·8	*	44·8	*	Blackpool.
a Liverpool (Bidston)	188	42	21st	31	25th	39·0	32·1	35·6	- 4·1	2	0·04	1	- 12	*4·0*	+ 1·4	*40*	6	23	36·3	- 1·8	41·1	+1·5	*Southport.*
a Hawarden Bridge	22	45	23rd	32	22, 25, 25	41·6	32·7	37·2	- 3·3	2	0·15	4	- 5	2·3	—	23	*	*	*	*	*	*	*Liverpool.*
p Manchester (Whit. Pk.)	125	42	20, 21	31	20th	38·9	33·0	36·0	- 4·0	4	0·25	6	- 5	1·9	—	*19*	5	29	36·5	- 1·7	42·9	+1·8	*Manchester (City)*
														1·5	+ 0·1	*15*	*	*	*	*	*	*	*(Whit. Park)*
b NORTH WALES.																							
p Llandudno	71	43	21st	32	20, 25	41·0	34·7	37·9	- 3·7	2	0·08	2	- 10	3·3	+ 0·6	33	*	*	*	*	*	*	Llandudno.
Holyhead	15	44	20-22	34	25, 26	41·7	36·4	39·1	- 2·5	3	0·24	6	- 9	*2·8*	—	*28*	*	*	*	*	*	*	*Holyhead.*
p Bettws-y-Coed	148	42	20, 21	29	22nd	39·6	31·0	35·3	- 5·7	3	0·52	13	—	2·4	—	24	*	*	38·1	- 1·7	44·0	+1·6	Bettws-y-Coed.
														3·7	—	37	*	*	*	*	*	*	Aberdovey.

† At 3 ft.

§ The temperature on the grass refers to Hereford.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.		Deviation from Normal.	Bright Sunshine. Hours per Day. Daily Mean	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES.														3·0	—	30	*	*	*	*	*	*	Aberystwyth
a Llangammarch Wells	550	40	21-23	25	22nd	37·1	29·4	33·3	− 5·2	5	0·55	14	—	1·2	—	12	4	16	38·0	−1·7	44·5	+1·8	Llangammarch.
a Pembroke	149	43	22nd	30	26th	40·7	34·1	37·4	− 4·6	4	0·53	13	− 2	2·9	− 0·1	29	*	*	*	*	*	*	Pembroke.
p Cardiff	202	42	22nd	26	25th	37·6	30·7	34·2	− 6·1	6	0·55	14	− 4	*2·2*	—	*22*	3	25	39·6	−0·6	44·8	+2·5	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	41	22nd	27	25th	37·6	31·9	34·8	− 5·7	7	0·94	24	+ 10	*1·2*	—	*12*	2	29	*	*	*	*	*Clifton.*
a Shaftesbury	722	40	20th	22	25, 26	35·0	28·0	31·5	− 7·4	6	0·56	14	0	*	*	*	*	*	38·4	*	43·8	*	Shaftesbury.
a Arlington	613	42	20th	23	25th	36·6	29·1	32·9	− 6·8	5	0·76	19	− 4	*	*	*	*	*	*	*	*	*	Arlington.
a Newquay	*190*	*47*	*20-23*	*25*	*25th*	*43·0*	*33·3*	*38·2*	*− 5·1*	*5*	*0·66*	*17*	*+ 1*	2·2	− 0·9	22	4	20	43·5	*	46·9	*	Newquay.
a Cullompton	202	44	20th	21	25th	38·1	31·4	34·8	− 6·1	6	1·85	47	+ 30	2·1	− 0·6	21	5	16	41·5	*	*	*	Cullompton.
a Portland Bill	12	46	20, 21	30	24, 26	40·1	34·6	37·4	− 4·4	6	0·80	20	—	*2·2*	—	*22*	*	*	*	*	*	*	*Weymouth.*
p Plymouth	116	46	20th	28	25th	40·4	33·9	37·2	− 5·2	4	0·92	23	+ 7	2·5	− 0·5	24	*	*	41·7	−0·6	46·7	*	Plymouth.
a Falmouth	167	48	20th	28	25th	41·6	34·3	38·0	− 5·3	6	0·88	22	+ 1	2·1	− 1·2	20	5	22	43·7	*	47·3	*	Falmouth.
9. IRELAND, N.																							
a, West .. *a* Malin Head	208	45	20th	33	24th	41·9	35·3	38·6	− 2·4	3	0·09	2	− 11	*4·8*	—	*48*	*	*	*	*	*	*	*Malin Head.*
a Blacksod Point	?	45	22nd	31	24th	41·9	33·7	37·8	− 4·9	3	0·24	6	− 16	*	*	*	*	*	*	*	*	*	* *
p Markree Castle ..	122	47	20, 21	24	23rd	45·0	29·7	37·4	− 3·0	0	0·00	0	− 19	3·4	+ 1·0	34	6	21	39·8	*	43·9	*	Markree Castle.
a Birr Castle	175	45	21st	25	23, 24	40·9	29·7	35·3	− 5·4	4	0·16	4	− 9	*1·9*	*− 0·6*	*19*	*	*	*	*	*	*	*Birr Castle.*
b, East .. *p* Armagh	196	46	21, 22	27	21, 23	42·7	30·3	36·5	− 3·6	1	0·11	3	− 10	3·8	+ 1·4	38	7	20	35·5	−5·2	42·7	+0·2	Armagh.
a Donaghadee	101	43	20, 21	35	21st	41·3	36·1	38·7	− 2·3	0	0·00	0	− 14	*	*	*	*	*	*	*	*	*	* *
10. IRELAND, S.														*	*	*	3	29	41·0	−0·8	44·3	+0·7	Trinity Coll.
														2·7	− 0·1	27	4	25	*	*	*	*	Phœnix Park.
a, East .. *p* Dublin, City	47	44	21st	33	26th	41·4	36·0	38·7	− 3·8	5	0·49	12	0	*	*	*	0	31	*	*	*	*	Dublin City.
a Kilkenny	212	46	22nd	30	22nd	41·1	32·6	36·9	− 4·2	7	0·38	10	− 5	*	*	*	*	*	*	*	*	*	* *
a Waterford	20	46	21, 22	30	22, 23	42·6	33·7	38·2	− 3·6	6	0·93	24	+ 5	*	*	*	*	*	*	*	*	*	* *
a Seskin, Carrick-on-Suir	*541*	*43*	*22nd*	*27*	*23rd*	*39·1*	*31·0*	*35·1*	—	*4*	*0·52*	*13*	—	*3·5*	—	*35*	5	22	*	*	*	*	*Seskin.*
b, West .. *a* Birr Castle	175	45	21st	25	23, 24	40·9	29·7	35·3	− 5·4	4	0·16	4	− 9	1·9	− 0·6	19	*	*	*	*	*	*	Birr Castle.
a Foynes	50	44	21, 22	30	23rd	41·1	33·0	37·1	− 5·7	2	0·06	2	− 17	*	*	*	*	*	*	*	*	*	* *
a Cahir	199	45	22nd	27	23, 24	41·6	31·7	36·7	− 5·0	6	0·24	6	—	*	*	*	*	*	*	*	*	*	* *
a Killarney	174	46	22, 26	27	23rd	43·2	31·6	37·4	− 5·4	4	0·11	3	− 27	*	*	*	*	*	*	*	*	*	* *
a Valencia	30	46	20, 22	32	26th	42·6	35·6	39·1	− 5·3	1	0·01	0·2	− 30	4·6	+ 1·8	46	*	*	*	*	*	*	Valencia.
a Roche's Point	32	47	20th	32	23rd	43·1	35·3	39·2	− 4·3	6	0·52	13	− 8	4·2	—	42	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	53	20th	34	25th	44·6	38·9	41·8	− 3·4	6	1·19	30	+ 14	2·2	− 1·1	21	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	48	20th	30	24th	41·6	35·9	38·8	− 4·3	6	2·05	52	+ 35	2·1	− 1·4	20	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	45	20th	30	24th	41·0	36·1	38·6	− 5·2	5	1·96	50	+ 34	1·9	− 1·5	18	1	30	44·3	+1·2	47·0	+2·2	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, February 26th, 1916.

District and Station.	Height. Above Mean Sea Level.	Above Ground.	Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.		Date and Hour.		Highest Gust with Date and Time.		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.			m/s.	d.	h. m.
1. SCOTLAND, E.																		
Dyce	220	75	‡15**	—	—	—	—	—	142	26	0	N.	5	22nd	8h.	15	22nd	15 . 32
Aberdeen*	153	105	{37 / 52}†	—	—	—	—	83	70	15	0	E.	10	23rd	14h.	15	25th	7 . 49
Edinburgh	485	39	31	—	—	—	—	114	41	13	0	N. by E.	9	23rd	10h	17	24th	13 . 5
6. SCOTLAND, W.																		
Eskdalemuir	850	50	22	24th	1	21 to 24, 26	37	85	7	36	2	NE.	17	24th	15h.	26	24th	2 . 31
Paisley	188	81	52	—	—	—	—	26	104	38	0	ENE.	9	24th	13h.	19	24th	20 . 36
2. ENGLAND, N.E.																		
Alnwick Castle	340	70	17	—	—	—	—	19	112	37	0	NNW.	7	22nd	9h.	19	22nd	7 . 24
South Shields	72	61	12	—	—	23 to 26	42	77	18	25	6	E. by N.	14	26th	9h.	22	22nd	13 . 35
Spurn Head	66	40	‡	—	—	22 to 26	85	35	28	20	0	—	17	23rd	20h.	27	23rd	19 . 17
3. ENGLAND, E.																		
Gorleston	52	42	‡	23rd	1	22 to 26	65	39	53	10	0	—	18	23rd	12h.	28	23rd	12 . 10
Shoeburyness	103	90	‡	—	—	23, 25, 26	28	80	58	2	0	—	16	25th	17h.	22	23rd	3 . 22
4. MIDLAND COUNTIES.																		
Benson	270	84	‡	—	—	23rd	1	84	66	17	0	NNE.	11	23rd	14h.	18	23rd	13 . 46
5. ENGLAND, S.E.																		
Dover	271	40	‡	—	—	22, 23, 25, 26	29	55	41	28	15	—	16	25th	16h.	24	25th	17 . 25
Warlingham	642	33	‡	—	—	—	—	3	98	60	7	—	6	23rd	14h.	17	23rd	13 . 39
Brighton	261	53	6	—	—	—	—	—	94	49	25	—	5	23rd	13h.	14	23rd	14 . 55
Kew Observatory ..	82	65	{6 / 22}†	—	—	—	—	64	87	8	9	ENE.	10	25th	24h.	17	25th	22 . 43
South Kensington ..	123	92	30	—	—	—	—	7	128	33	0	E. by N.	7	25th	23h	14	25th	23 . 43
7. ENGLAND, N.W.																		
Carnforth	246	56	23	—	—	24th	1	54	73	40	0	NNE.	11	24th	21h.	19	24th	19 . 6
Southport	80	62	48	24th	1	22 to 26	54	71	42	0	0	NE.	17	24th	14h.	26	24th	13 . 17
Holyhead*	60	40	‡	23, 24	16	22 to 26	78	55	15	4	0	NE. by E.	19	23rd	20h.	24	23rd	24 . 20
8. ENGLAND, S.W.																		
Pendennis Castle§ ..	256	65	24	21st	4	20 to 26	97	63	4	0	0	E.	19	21st	2h.	23	21st	2 . 5
Plymouth	185	88	2	—	—	23, 24	3	108	55	2	0	—	12	24th	1h.	20	24th	1 . 45
10. IRELAND, S.																		
Quilty	100	40	‡	—	—	24, 26	3	102	60	3	0	—	11	26th	13h.	18	24th	11 . 55
Weaver Pt.	160	30	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11. ENGLISH CHANNEL.																		
Scilly*	150	{32 / 19}	‡	—	—	21, 23, 24, 26	16	115	27	7	3	NE. by E.	13	24th	11h.	21	24th	10 . 50

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.
† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew), and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

EIGHTH WEEK—February 20th to February 26th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			Pressure Mean for the Week at M.S.L
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
			Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.				Deviation from Normal.				
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	45	23	77·6	72·2	74·9	− 1·4	0	− 7	46	+ 9	3	− 1	0·23	6	− 18	3·2	+0·9	33	1025
Eastern.																			
1. SCOTLAND, EAST ...	45	7	77·0	71·5	74·2	− 1·5	0	− 8	55	+ 12	4	+ 1	0·37	10	− 3	2·5	−0·2	26	1024
2. ENGLAND, N.E.	45	23	76·9	72·5	74·7	− 1·9	0	− 9	48	+ 14	5	+ 1	0·75	19	+ 11	1·7	−1·0	17	1019
3. ENGLAND, EAST ...	44	24	76·4	72·3	74·3	− 2·3	0	− 12	53	+ 16	6	+ 3	1·06	27	+ 19	1·0	−1·9	10	1014
4. MIDLAND COUNTIES ...	45	23	76·1	71·7	73·9	− 2·7	0	− 13	58	+ 20	5	+ 2	0·77	19	+ 9	1·1	−1·4	11	1016
5. ENGLAND, S.E.	46	15	76·5	72·0	74·3	− 3·0	0	− 14	54	+ 24	5	+ 3	1·14	29	+ 18	1·5	−1·5	15	1013
Western.																			
6. SCOTLAND, WEST ...	46	23	77·9	72·4	75·2	− 1·6	0	− 9	43	+ 11	2	− 2	0·03	1	− 20	3·6	+1·4	36	1023
7. ENGLAND, N.W.	45	24	77·3	73·1	75·2	− 1·9	0	− 11	42	+ 12	2	− 2	0·19	5	− 8	3·3	+0·4	33	1018
8. ENGLAND, S.W.	48	21	76·6	72·8	74·8	− 3·2	0	− 17	48	+ 24	6	+ 2	0·83	21	+ 4	2·3	−0·6	23	1014
9. IRELAND, NORTH ...	47	24	78·7	73·3	76·0	− 1·7	1	− 13	33	+ 8	2	− 2	0·10	3	− 13	3·6	+1·0	36	1023
10. IRELAND, SOUTH ...	47	25	78·6	73·7	76·1	− 2·5	0	− 21	31	+ 11	5	+ 2	0·32	8	− 11	3·4	+0·5	33	1020
11. ENGLISH CHANNEL ...	53	30	78·8	75·8	77·3	− 2·4	1	− 22	18	+ 8	6	+ 2	1·73	44	+ 29	2·1	−1·5	20	1011

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 13 Weeks, November 28th, 1915, to February 26th, 1916.

0. SCOTLAND, NORTH ...	53	16	79·4	74·5	77·0	+ 0·4	110	+ 10	349	− 92	77	+ 9	22·26	565	+140	1·1	+0·1	15	1002
Eastern.																			
1. SCOTLAND, EAST ...	57	7	79·3	73·8	76·6	+ 0·5	103	+ 1	449	− 74	64	+13	12·12	309	+112	1·6	0·0	21	1004
2. ENGLAND, N.E.	60	22	80·7	75·2	78·1	+ 1·3	201	+ 82	281	−133	56	+ 8	8·48	217	+ 76	1·8	+0·2	22	1007
3. ENGLAND, EAST ...	58	21	81·3	75·8	78·6	+ 2·0	256	+125	244	−226	60	+12	8·99	227	+ 93	1·7	0·0	20	1011
4. MIDLAND COUNTIES ...	59	18	81·3	75·3	78·3	+ 1·7	253	+106	282	−191	60	+12	9·99	255	+ 92	1·5	−0·1	18	1010
5. ENGLAND, S.E.	63	15	82·0	76·7	79·4	+ 1·8	334	+147	174	−175	63	+16	12·87	328	+153	1·7	−0·1	20	1012
Western.																			
6. SCOTLAND, WEST ...	54	21	80·2	75·3	77·8	+ 0·4	154	+ 9	265	− 80	74	+15	16·59	422	+ 63	1·5	+0·1	19	1006
7. ENGLAND, N.W.	58	23	81·1	76·2	78·7	+ 1·2	218	+ 68	213	−123	67	+13	13·38	340	+111	1·4	0·0	17	1008
8. ENGLAND, S.W.	58	21	82·0	77·3	79·7	+ 1·3	331	+ 92	134	−125	71	+16	17·65	451	+163	1·5	−0·3	18	1012
9. IRELAND, NORTH ...	56	19	81·3	75·8	78·7	+ 0·8	231	+ 48	234	− 61	74	+12	12·72	322	+ 62	1·7	+0·1	22	1005
10. IRELAND, SOUTH ...	59	20	82·3	76·7	79·6	+ 0·7	340	+ 58	152	− 73	76	+18	14·20	359	+ 58	1·8	0·0	22	1009
11. ENGLISH CHANNEL ...	57	30	83·2	79·3	81·3	+ 1·1	490	+125	28	− 63	73	+11	15·68	398	+150	1·8	−0·5	21	1013

THE YEAR.—Aggregates, &c., for the Period of 8 Weeks, January 2nd to February 26th, 1916.

0. SCOTLAND, NORTH ...	53	22	80·1	75·0	77·6	+ 1·3	102	+ 48	178	−116	47	+ 6	15·48	393	+138	1·5	+0·2	19	1004
Eastern.																			
1. SCOTLAND, EAST ...	57	7	80·2	74·3	77·3	+ 1·4	96	+ 35	244	− 92	36	+ 5	6·28	161	+ 48	2·2	+0·3	28	1007
2. ENGLAND, N.E.	60	23	81·3	75·6	78·5	+ 1·8	160	+ 90	152	−116	28	− 1	3·02	78	0	2·2	+0·3	26	1012
3. ENGLAND EAST ...	56	24	81·4	75·7	78·6	+ 2·2	169	+ 92	152	−150	33	+ 4	4·52	114	+ 38	2·0	−0·1	24	1016
4. MIDLAND COUNTIES ...	58	23	81·4	75·6	78·6	+ 2·1	172	+ 82	159	−141	32	+ 3	4·40	112	+ 16	1·9	+0·1	22	1015
5. ENGLAND, S.E.	57	15	81·8	76·5	79·2	+ 1·9	200	+ 97	119	−111	36	+ 8	5·14	131	+ 30	2·1	+0·1	24	1017
Western.																			
6. SCOTLAND, WEST ...	54	23	80·8	75·8	78·4	+ 1·3	128	+ 48	137	− 95	45	+ 9	8·86	225	+ 21	1·9	+0·3	22	1010
7. ENGLAND N.W.	58	24	81·6	76·7	79·2	+ 2·0	167	+ 84	107	−115	39	+ 6	6·44	163	+ 33	1·7	0·0	20	1014
8. ENGLAND, S.W.	57	21	81·8	77·4	79·6	+ 1·4	194	+ 60	86	− 89	41	+ 8	8·01	206	+ 46	1·8	−0·2	20	1017
9. IRELAND NORTH ...	56	24	81·8	76·1	79·0	+ 1·2	172	+ 62	122	− 70	44	+ 7	6·44	164	+ 13	2·1	+0·3	25	1011
10. IRELAND, SOUTH ...	59	25	82·6	77·1	79·9	+ 1·2	221	+ 56	79	− 67	48	+14	7·19	182	+ 9	2·0	0·0	23	1016
11. ENGLISH CHANNEL ...	56	30	82 8	79·2	81·0	+ 1·2	272	+ 76	21	− 49	43	+ 6	6·96	176	+ 41	2·1	−0·4	23	1019
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F			inches.	mm.	m.m.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., March 2nd, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 9. SUNDAY, FEBRUARY 27TH, to SATURDAY, MARCH 4TH, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE NINTH WEEK OF 1916.

The weather was again cold over the Kingdom generally, while wintry precipitation occurred almost daily over a very large portion of England and in several parts of Ireland and Scotland. Temperature was less low than that of the preceding week, but it was everywhere below the normal, the deficit ranging from 1° A. (1·8° F.) in England East and North-East to 3° A. (5·4° F.) in England South-West and to 3·5° A. (6·3° F.) in Ireland South. Maximum readings below 277·5° A. (40° F.) were common except in the far West and South-West, and at a few stations in Great Britain that value was not attained on any day. In England East and South-East, the English Channel, and Ireland South the thermometer touched 282° A. (48° F.). Severe frost at night was, however, uncommon. The absolute minima occurred on rather irregular dates, but the coldest night at many stations was March 4th, when the thermometer fell to 264·7° A. (17° F.) at Kilmarnock, to 265·2° A. (18° F.) at Markree Castle and Llangammarch Wells, and to 266°·4 A. (20° F.) at Birr Castle. At Scilly, Guernsey, Dungeness and Scarborough the thermometer remained above 273° A. (32° F.) throughout the period. Much of the precipitation was composed of snow, and the quantity was heavy or very heavy in the Eastern half of England and in the East of Scotland. In the Western districts, also in the north of Scotland it was moderate or light. Bright sunshine was moderate in most districts, but scanty in Eastern, Central, and Southern England. In the Midland Counties the mean daily duration was only 1·6 hour, but in England South-West the corresponding value was 3·0 hours, and in Ireland South 3·5 hours. A thunderstorm was experienced at Portland Bill and Weymouth on March 1st. Aurora was observed at Fort William on March 3rd. The temperature of the coastal sea water was about the average off the South-West, South-East, and North-East of England, but below it elsewhere, about 1°·8 A. (3° F.) off the North-West of Ireland.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		ENGLAND, E.		NORTH WALES.		ENGLAND, S.W.		IRELAND, S.W.	
	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.
		m/s		m/s		m/s		m/s		m/s
South	1	3·1	4	3·0	0	—	¼	1·3	0	—
North	6	5·3	3	6·4	7	5·5	6	6·0	7	5·3
West	3	2·6	2	1·7	0	—	1	5·6	1	2·0
East	4	4·9	5	5·7	7	6·1	4	3·1	5	1·6
Calm	0	—	0	—	0	—	¼	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH AVERAGE.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year ...	Warmth ...	Deficient	Deficient	Deficient	Moderate	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Very deficient	Deficient
	Rainfall ...	Light	Heavy	Very heavy	Heavy	Heavy	Very heavy	Light	Moderate	Moderate	Moderate	Light	Very heavy
	Sunshine ...	Moderate	Moderate	Moderate	Scanty	Scanty	Scanty	Moderate	Moderate	Moderate	Moderate	Moderate	Scanty

II.—THE SPRING SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SPRING. 1 week from Feb. 27th, 1916.	Warmth ...	0, 0, 1	0, 0, 1	0, 0, 1	0, 1, 0	0, 0, 1	0, 0, 1	0, 0, 1	0, 0, 1	0, 0, 1	0, 0, 1	0, 0, 1	0, 0, 1
	Rainfall ...	0, 0, 1	1, 0, 0	1, 0, 0	1, 0, 0	1, 0, 0	1, 0, 0	0, 0, 1	0, 1, 0	0, 1, 0	0, 1, 0	0, 0, 1	1, 0, 0
	Sunshine ...	0, 1, 0	0, 1, 0	0, 1, 0	0, 0, 1	0, 0, 1	0, 0, 1	0, 1, 0	0, 1, 0	0, 1, 0	0, 1, 0	0, 1, 0	0, 0, 1

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1° A. = increment of $\frac{9}{5}$° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s. = 2·24 miles per hour.

(7587—19.) Wt. 160—610. 450. 3/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.				Mean for the Week.			Deviation from Normal.	Rainfall.				Bright Sunshine Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Of Daily Max.	Of Daily Min.	Daily Mean.		No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft.		
																	Ground Frosts	Lowest Reading.	Mean	Deviation from Average.	Mean.	Deviation from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.																							
p Baltasound	*51*																						*Baltasound.*
a, Islands .. *a* Lerwick	54	42	27th	26	2nd	38·6	31·9	35·2	- 3·1	7	0·49	12	—	2·5	0·0	25	•	•	•	•	•	•	Deerness.
a Stornoway	51	43	28, 29	27	3rd	39·1	31·6	35·2	- 3·9	7	0·52	13	- 12	3·3	+ 0·6	33	•	•	•	•	•	•	Stornoway.
a Castlebay, Barra Isd.	*37*	*43*	*28, 1*	*30*	*3rd*	*40·1*	*33·9*	*36·9*	- *4·1*	*4*	*0·16*	*4*	—	*4·8*	—	*47*	•	•	•	•	•	•	*Castlebay.*
a Wick	81	41	27th	28	3rd	38·7	33·0	35·8	- 2·4	7	0·37	9	- 4	•	•	•	•	•	•	•	•	•	• •
p Strathpeffer	200	?40	29th	26	3rd	?38·1	?29·1	?33·5	- 4·3	25	?0·33	78	- 8	?1·4	+ 1·1	14	•	•	•	•	•	•	Strathpeffer.
b, Main-land. *p* Glencarron	500	37	28th	23	3rd	35·3	28·6	31·9	- 5·2	5	0·16	4	- 41	•	•	•	•	•	•	•	•	•	• •
p Fort Augustus	68	40	28th	24	4th	38·0	30·7	34·2	- 4·1	5	0·36	9	- 15	1·3	- 0·6	13	•	•	•	•	•	•	Fort Augustus.
p Fort William	171	41	29th	22	4th	38·6	30·0	34·2	- 5·2	5	0·06	2	- 40	•	•	•	•	•	•	•	•	•	• •
1. SCOTLAND, E.																							
p Gordon Castle	101	41	29th	29	2, 3	38·9	30·6	34·6	- 4·3	7	0·96	24	+ 11	2·1	—	20	4	25	35·3	- 1·2	37·3	- 0·2	Crathes.
a Nairn	82	40	29th	28	27, 3	37·4	30·7	34·0	- 4·3	7	0·80	20	+ 9	1·2	—	12	•	•	•	•	•	•	*Gordon Castle.*
a Aberdeen	46	43	29th	29	3, 4	39·3	32·9	36·0	- 2·7	7	1·06	27	+ 14	2·9	- 0·2	28	•	•	•	•	38·9	- 0·2	Nairn.
a Balmoral	930	37	3rd	23	3rd	35·1	27·1	31·0	- 3·5	6	1·10	28	+ 12	•	•	•	6	21	•	•	•	•	Aberdeen.
p Crieff	432	41	29th	25	3rd	38·6	29·0	33·7	- 5·0	4	0·22	6	- 14	•	•	•	•	•	•	•	•	•	Balmoral.
																							Balruddery.
a Leith	18	41	29th	30	4th	39·6	33·1	36·3	- 3·6	4	0·91	23	+ 14	•	•	•	•	•	•	•	•	•	• •
a West Linton	769	36	4th	23	4th	35·0	28·3	31·6	- 4·1	5	1·32	34	—	2·7	—	23	6	18	•	•	•	•	*West Linton.*
p Marchmont	498	39	4th	26	2, 4	37·7	29·4	33·4	- 4·3	6	1·68	43	+ 30	2·0	- 0·9	19	5	21	•	•	•	•	Marchmont.
a Edinburgh	*441*	*39*	*29th*	*28*	*3rd*	*37·3*	*31·0*	*34·1*	—	*5*	*0·98*	*25*	—	2·4	—	23	4	25	•	•	•	•	Edinburgh.
6. *a*, SCOTLAND, W.																							
a Poltalloch	132	42	29, 1	22	4th	40·1	29·4	34·6	- 4·6	3	0·07	2	- 20	•	•	•	•	•	•	•	•	•	• •
p Glasgow Observatory	180	41	29, 1	28	3, 4	39·3	32·1	35·6	- 3·7	4	0·13	3	- 13	2·4	+ 0·4	23	4	19	•	•	•	•	Glasgow.
p Rothesay	170	42	1st	27	3rd	39·9	31·6	35·6	- 4·5	5	0·09	2	- 19	*2·9*	—	*28*	6	19	35·9	•	40·0	- 2·0	*Rothesay.*
a Kilmarnock	90	41	29, 1, 4	17	4th	39·9	29·0	34·3	- 4·9	5	0·14	4	—	*2·4*	—	*23*	•	•	•	•	•	•	*Kilmarnock.*
a Colmonell	170	42	1st	20	4th	40·4	29·3	34·7	- 4·5	3	0·21	5	- 16	•	•	•	5	14	•	•	•	•	• •
a Dumfries	160	41	1st	27	4th	39·9	31·1	35·4	- 4·2	5	0·28	7	- 11	*1·7*	—	*16*	6	19	35·5	•	39·1	•	*Dumfries.*
Eskdalemuir	*799*	*36*	*1, 4*	*23*	*3rd*	*34·4*	*27·9*	*31·1*	—	*4*	*0·75*	*19*	—	*2·4*	—	*23*	•	•	•	•	•	•	*Eskdalemuir.*
p Cally, Gatehouse	120	44	1, 3, 4	27	4th	41·9	30·7	36·1	- 3·1	3	0·43	11	- 13	•	•	•	•	•	•	•	•	•	• •
b, I. OF MAN. *p* Douglas	277	42	1st	29	4th	40·4	32·9	36·5	- 4·0	5	0·78	20	- 1	3·0	- 0·2	29	4	22	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	219	41	29, 1	29	4th	39·6	32·1	35·7	- 3·1	7	1·41	36	+ 23	1·7	—	16	4	24	35·1	- 1·6	38·7	- 0·3	Cockle Park.
a Tynemouth	71	42	29, 1	30	4th	39·9	34·6	37·2	- 2·4	7	0·91	23	+ 14	•	•	•	•	•	•	•	•	•	*Tynemouth.*
p Durham	336	43	29th	28	4th	39·1	30·9	34·9	- 3·5	7	1·69	43	+ 34	1·9	- 1·0	18	4	21	•	•	•	•	Durham.
a, North .. *p* Rounton	249	43	29th	27	4th	40·0	31·4	35·6	- 2·6	7	1·13	29	+ 19	•	•	•	6	23	36·4	•	•	•	Rounton.
a West Witton	*605*	*40*	*29th*	*27*	*4th*	*37·4*	*32·1*	*34·7*	—	*6*	*1·59*	*38*	—	•	•	•	5	24	35·3	•	38·7	•	*West Witton.*
p Scarborough†	100	44	27, 1	33	27th	42·9	35·6	39·1	- 0·8	6	0·80	20	+ 9	2·5	—	21	•	•	•	•	43·0	•	Scarborough.
p York	56	44	1st	29	4th	41·3	33·4	37·2	- 2·3	7	0·88	22	+ 12	2·0	- 0·6	19	•	•	38·1	- 0·2	41·3	+0·9	York.
a Spurn Head	26	43	1st	32	28th	41·0	34·1	37·5	- 2·1	7	0·91	23	+ 15	*2·1*	—	*20*	•	•	•	•	•	•	*Spurn Head.*
b, South .. *a* Lincoln	58	47	1st	29	4th	41·2	32·9	36·9	- 2·5	6	0·78	20	+ 11	•	•	•	•	•	35·6	- 1·5	40·4	+0·8	Lincoln.
a Fulbeck	180	44	1st	29	4th	39·7	32·1	35·8	- 3·9	7	1·14	29	+ 20	2·4	—	23	3	27	37·3	- 1·9	42·4	+0·6	Rauceby.
														3·2	—	30	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																							
p Cromer	196	48	29th	30	28th	43·3	33·4	38·2	- 0·3	6	0·59	15	—	2·0	—	19	•	•	•	•	•	•	Cromer.
p Little Massingham	280													•	—	•	•	•	•	•	•	•	Lit. Massingham.
a, North .. *a* Yarmouth	13	44	1st	27	3rd	41·3	32·1	36·6	- 2·2	3	0·51	13	+ 4	3·0	—	28	•	•	39·0	+0·3	42·9	+1·1	Yarmouth.
a Norwich	93	47	29th	30	2nd	42·6	33·4	37·9	- 1·1	7	0·77	20	—	*2·3*	—	*22*	5	25	36·6	•	•	•	*Norwich.*
a Geldeston	37	48	29th	28	2nd	43·4	33·1	38·1	- 1·5	7	0·78	20	+ 11	2·5	- 0·7	24	•	•	•	•	•	•	Geldeston.
p Cambridge	41	45	29, 1	28	2nd	41·4	31·1	36·1	- 3·7	7	0·79	20	+ 12	1·6	- 1·6	15	5	27	37·5	- 1·7	42·0	+0·4	Cambridge.
b, South .. *a* Clacton-on-Sea	54	45	1st	32	2, 3	41·1	34·0	37·6	- 2·0	6	1·10	28	—	2·3	—	22	2	25	38·6	- 1·7	42·5	- 0·6	Clacton.
a Rothamsted	424	43	1st	27	2nd	38·4	30·6	34·4	- 4·6	7	0·75	19	+ 8	2·0	- 1·0	19	4	22	36·0	•	•	•	Rothamsted.
p Tottenham	51	46	29th	30	2nd	41·0	33·0	36·9	- 3·3	5	0·72	18	—	1·1	—	10	4	27	•	•	43·0	+0·5	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate	479	40	29, 1	28	4th	37·1	30·6	33·8	- 4·2	6	1·31	33	+ 26	1·7	—	16	4	26	36·5	- 1·6	39·3	- 0·1	Harrogate.
p Buxton	*987*	*38*	*1st*	*27*	*27, 4*	*35·0*	*28·7*	*31·8*	- *4·6*	*5*	*0·81*	*21*	- *2*	*1·3*	—	*12*	6	21	34·4	- 2·8	39·8	- 0·5	*Buxton.*
														0·8		8	3	25	35·9	- 1·7	40·9	+0·8	Sheffield.
a Bawtry	65	44	1st	25	27th	40·1	31·4	35·6	- 4·0	6	1·45	37	+ 23	1·5	- 1·0	14	5	17	37·3	•	40·3	•	Worksop.
a Nottingham	82	42	1st	30	27th	39·3	32·4	35·8	- 3·8	5	1·07	27	+ 17	1·8	—	17	3	26	35·3	- 2·2	38·8	- 0·1	Nottingham.
b, East .. *p* Birmingham, Edgbsn.	535	38	1, 3, 4	27	28, 4	36·6	30·4	33·4	- 5·8	5	0·82	21	+ 11	1·0	—	9	6	21	36·6	- 3·0	43·3	+0·3	Birmingham.
a Raunds	203	44	29th	26	2nd	40·3	29·7	34·8	- 4·6	6	1·04	27	—	*2·2*	—	*21*	7	23	40·1	•	44·0	•	*Raunds.*
p Oxford	208	43	29, 1	30	4th	40·0	32·3	36·0	- 4·3	6	0·61	15	+ 5	2·1	- 0·8	20	6	24	•	•	•	•	Oxford.
a Cheadle	646	40	4th	26	4th	37·7	29·9	33·7	- 4·7	5	1·07	27	+ 14	•	•	•	6	24	•	•	•	•	Cheadle.
c, West .. *p* Shrewsbury	191	43	4th	28	28, 3	38·7	30·3	34·4	- 6·1	5	1·08	28	—	•	•	•	7	24	•	•	•	•	Shrewsbury.
a Hereford§	291	40	28, 4	28	28, 4	38·3	29·9	34·0	- 6·2	5	0·85	22	+ 10	*1·2*	—	*11*	7	20	35·1	•	40·6	•	*Malvern.*§
a Bath	66	45	1st	28	28th	40·7	30·3	35·4	- 5·3	4	0·71	18	+ 5	2·1	•	20	•	•	38·2	- 2·2	43·4	0·0	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	44	27th	24	28th	40·1	28·1	33·9	- 5·3	5	0·80	20	+ 6	2·2	—	21	3	24	38·6	- 2·1	43·8	+0·8	Worthing.
a Margate	53	48	1st	29	28th	43·7	34·7	39·1	- 1·2	5	1·25	32	+ 23	2·0	- 0·6	19	6	21	38·7	•	44·0	•	Marlborough.
a Wisley, Surrey	150	47	1st	30	28, 2	40·4	31·2	36·0	- 4·7	5	0·84	21	—	1·3	- 1·8	12	1	27	39·3	- 0·8	42·3	+0·8	Margate.
p Salisbury (Wilton)	180	45	1st	25	28th	40·0	29·6	34·7	- 5·2	6	1·05	27	+ 13	1·6	—	15	3	18	37·2	- 2·3	42·2	+0·3	Wisley.
a Tunbridge Wells	354	46	1st	28	28th	40·6	31·9	36·1	- 3·4	5	1·33	34	+ 21	•	•	•	5	21	38·1	•	•	•	Salisbury.
														1·8	- 1·2	17	4	21	38·1	- 0·7	42·4	•	Tunbridge Wells.
a Dungeness	21	47	29th	33	27–29	43·4	35·1	39·1	- 1·2	5	1·85	47	+ 28	•	•	•	•	•	•	•	•	•	Littlestone.
p Hastings	178	46	29th	31	28th	42·1	35·1	38·5	- 2·1	6	1·44	37	+ 24	1·7	- 1·8	16	4	25	38·4	•	43·1	•	Hastings.
p Southampton	64	46	1st	29	28, 29	40·3	31·6	36·8	- 6·4	6	1·09	28	+ 15	2·0	- 1·3	19	5	21	•	•	•	•	Southampton.
a Ventnor	59	48	1st	31	4th	43·0	34·0	38·4	- 3·9	6	1·63	41	+ 29	2·5	- 1·1	23	•	•	•	•	•	•	Ventnor.
LONDON. *p* Kew	18	46	1st	30	2nd	41·2	32·2	36·6	- 3·8	5	0·60	15	+ 5	1·6	- 1·0	15	3	25	37·4	- 2·1	43·0	+0·5	Kew.
a Westminster	*27*	*47*	*29th*	*32*	*28, 2*	*42·2*	*34·0*	*38·0*	- *2·5*	*5*	*0·72*	*18*	+ *2*	*1·2*	- *0·4*	*11*	2	28	•	•	•	•	*Westminster.*
a Greenwich	*155*	*46*	*1st*	*31*	*28, 2*	*41·0*	*32·6*	*36·7*	- *4·1*	*5*	*0·66*	*17*	+ *7*	*1·7*	- *0·8*	*16*	4	25	•	•	•	•	*Greenwich.*
a Hampstead	*450*	*44*	*1st*	*27*	*2nd*	*38·4*	*29·9*	*34·0*	—	*5*	*0·64*	*16*	—	*1·4*	—	*13*	6	23	•	•	•	•	*Hampstead.*
a Camden Square	*110*	*46*	*29, 1*	*30*	*28th*	*41·4*	*32·6*	*36·9*	—	*4*	*0·77*	*20*	—	*1·5*	—	*12*	3	27	•	•	•	•	*Camden Square.*
7. *a*, ENGLAND, N.W.																							
p Aspatria	250	41	1st	24	4th	37·9	29·6	33·6	- 4·8	5	0·72	18	+ 3	2·3	—	22	•	•	•	•	•	•	Hoylake.
p Newton Rigg	559	42	1st	25	4th	39·0	29·4	34·1	- 3·3	4	0·31	8	- 9	1·4	—	13	5	19	36·9	•	41·8	•	Aspatria.
p Stonyhurst	375	42	1st	29	4th	39·6	31·9	35·6	- 3·2	6	0·50	13	- 8	1·9	- 0·8	18	7	19	36·6	- 2·4	39·3	- 0·3	Newton Rigg.
p Blackpool	66	44	29, 1	28	4th	41·6	31·9	36·6	- 3·3	4	0·33	8	- 5	2·4	- 0·2	23	6	24	•	•	•	•	Stonyhurst.
a Southport	*37*	*45*	*1st*	*30*	*28, 4*	*41·1*	*31·9*	*36·4*	- *4·0*	*5*	*0·65*	*17*	+ *4*	2·8	+ 0·1	27	6	15	39·1	•	43·9	•	Blackpool.
a Liverpool (Bidston)	188	45	1st	31	29, 4	*3·0*	*+ 0·1*	*29*	6	20	36·2	- 2·2	40·1	0·0	*Southport.*								
a Hawarden Bridge	22	?41	27, 3	?30	29th	40·0	32·0	35·9	- 4·8	5	1·02	26	+ 15	*1·9*	—	*18*	•	•	•	•	•	•	*Liverpool.*
p Manchester (Whit. Pk.)	125	44	1st	31	4th	?39·3	?31·9	?35·5	- 5·6	6	1·00	25	+ 16	*2·0*	—	*19*	4	27	35·9	- 2·3	41·9	+0·5	*Manchester (City)*
						40·0	33·7	36·8	- 3·4	5	0·37	9	- 2	*1·4*	- *0·2*	*13*	•	•	•	•	•	•	" *(Whit. Park)*
b NORTH WALES.																							
p Llandudno	71	45	1st	32	28th	40·7	33·7	37·1	- 4·8	6	0·97	25	+ 13	3·3	+ 0·3	31	•	•	•	•	•	•	Llandudno.
Holyhead	15	45	1st	32	3rd	41·7	35·6	38·6	- 3·3	5	0·87	22	+ 7	*3·5*	—	*33*	•	•	•	•	•	•	*Holyhead.*
p Bettws-y-Coed	148	42	1st	26	4th	39·3	31·1	35·1	- 6·1	7	1·33	34	—	1·9	—	18	•	•	36·9	- 2·9	43·0	+0·4	Bettws-y-Coed.
														3·0	—	28	•	•	•	•	•	•	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date,	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.		Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average.	
	Ft	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F	
8. *a*, SOUTH WALES.														3·0	—	28	*	*	*	*	*	*	Aberystwyth.
a Llangammarch Wells	550	37	27, 1, 4	18	4th	36·6	28·3	32·3	- 6·3	6	0·77	20	—	1·4	—	13	6	?	36·3	-8·0	43·4	+0·6	Llangammareh.
a Pembroke	149	42	27, 28, 4	32	27, 3, 4	40·7	33·3	36·9	- 5·3	4	0·59	15	0	2·5	- 0·8	24	*	*	*	*	*	*	Pembroke.
p Cardiff	202	41	1, 4	30	27, 28	39·7	31·3	35·4	- 5·5	5	0·44	11	- 7	*3·0*	—	*28*	5	24	37·6	-2·5	43·6	+1·2	*Cardiff.*
b, ENGLAND S.W.																							
a Clifton	229	43	1st	30	28th	38·7	31·4	34·9	- 5·9	4	0·78	20	+ 6	*1·7*	—	*16*	4	26	*	*	*	*	*Clifton.*
a Shaftesbury	722	39	1, 4	22	27th	37·6	27·9	32·6	- 6·3	5	1·00	26	+ 12	*	*	*	*	*	36·1	*	42·2	*	Shaftesbury.
a Arlington	613	42	28th	25	4th	38·6	28·4	33·4	- 6·5	6	2·16	55	+ 32	*	*	*	*	*	*	*	*	*	Arlington.
a Newquay	*190*	*44*	*28, 29*	*30*	*27, 28*	*42·1*	*31·7*	*36·8*	- *6·7*	*5*	*0·68*	*17*	+ *2*	2·9	- 0·5	27	4	25	40·5	*	45·5	*	Newquay.
a Cullompton	202	45	1st	21	28th	40·9	29·4	35·0	- 6·2	4	0·68	17	+ 1	2·6	- 0·5	24	5	17	38·2	*	*	*	Cullompton.
a Portland Bill	19	46	1st	31	27th	41·6	33·3	37·3	- 4·8	5	0·67	17	—	*2·9*	—	*27*	*	*	*	*	*	*	*Weymouth.*
p Plymouth	116	46	1st	29	28th	43·1	31·9	37·3	- 5·4	4	0·24	6	- 10	4·5	+ 1·1	42	*	*	38·7	-3·5	45·1	*	Plymouth.
p Falmouth	167	47	28th	28	27th	42·9	31·0	36·8	- 6·6	2	0·57	15	- 5	4·3	+ 0·6	40	7	21	41·2	*	45·9	*	Falmouth.
9. IRELAND. N.																							
a, West .. *a* Malin Head	208	42	29, 1	32	4th	39·7	34·6	37·1	- 4·1	6	0·26	7	- 6	*2·1*	—	*20*	*	*	*	*	*	*	*Malin Head.*
a Blacksod Point ..	?	43	1st	30	3rd	40·7	32·4	36·4	- 6·4	7	0·43	11	- 11	*	*	*	*	*	*	*	*	*	*
p Markree Castle ..	122	45	29, 3	18	4th	42·4	28·7	35·4	- 5·2	5	0·28	7	- 12	3·3	+ 0·6	32	5	17	38·6	*	43·0	*	Markree Castle.
a Birr Castle	175	42	4th	20	4th	39·7	28·4	33·9	- 6·9	4	0·33	8	- 5	*2·1*	- *0·8*	*20*	*	*	*	*	*	*	*Birr Castle.*
b, East .. *p* Armagh	196	43	4th	24	3, 4	40·3	28·7	34·3	- 6·1	4	0·74	19	+ 6	2·5	- 0·2	24	5	17	37·3	-3·5	41·9	-1·0	Armagh.
a Donaghadee	101	42	1, 4	32	3rd	40·0	34·4	37·1	- 4·1	6	0·52	13	- 1	*	*	*	*	*	*	*	*	*	*
														*	*	*	4	19	39·4	-2·3	43·3	-0·5	Trinity Coll.
10. IRELAND. S.														2·4	- 0·7	23	3	16	*	*	*	*	Phœnix Park.
a, East .. *p* Dublin, City	47	43	1st	27	4th	40·0	32·3	36·0	- 6·7	6	1·70	43	+ 32	*	*	*	3	24	*	*	*	*	Dublin City.
a Kilkenny	212	42	29, 1, 4.	24	4th	40·3	30·4	35·2	- 6·1	5	0·06	2	- 13	*	*	*	*	*	*	*	*	*	*
a Waterford	20	44	1, 4	27	4th	41·9	31·9	36·8	- 5·2	2	0·08	2	- 17	*	*	*	*	*	*	*	*	*	*
a Seskin, Carrick-on-Suir	*541*	*41*	*4th*	*24*	*4th*	*38·6*	*29·1*	*33·7*	—	*4*	*0·10*	*3*	—	*2·8*	—	*26*	5	19	*	*	*	*	*Seskin.*
b, West .. *a* Birr Castle	175	42	4th	20	4th	39·7	28·4	33·9	- 6·9	4	0·33	8	- 5	2·1	- 0·8	20	*	*	*	*	*	*	Birr Castle.
a Foynes	50	42	4th	26	4th	40·1	31·0	35·4	- 7·4	5	0·40	10	- 8	*	*	*	*	*	*	*	*	*	*
a Cahir	199	44	4th	26	4th	41·1	30·6	35·7	- 6·1	4	0·12	3	—	*	*	*	*	*	*	*	*	*	*
a Killarney	174	48	4th	23	4th	42·9	30·5	36·5	- 6·3	5	0·46	12	- 17	*	*	*	*	*	*	*	*	*	*
a Valencia	30	43	29, 1, 2, 4	29	28th	42·3	32·7	37·4	- 7·0	5	0·46	12	- 16	5·0	+ 1·9	47	*	*	*	*	*	*	Valencia.
a Roche's Point	32	44	4th	30	4th	41·4	32·7	36·9	- 6·5	5	0·22	6	- 13	4·4	—	42	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	45	27–29	35	27th	44·0	37·0	40·4	- 4·8	6	1·73	44	+ 29	2·8	- 0·9	26	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	45	1st	32	29th	42·7	35·3	38·9	- 4·6	6	1·81	46	+ 33	2·5	- 1·4	23	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	48	1st	33	27th	41·6	35·1	38·3	- 5·7	6	1·11	28	+ 12	2·4	- 1·4	22	1	28	39·7	-3·5	45·6	+0·6	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, March 4th, 1916.

DISTRICT AND STATION.	Height.			Distribution of Wind.										Extreme Velocities.							
				Gales, force 8 or more.		High Winds, forces 6 and 7.		Fresh or Moderate Winds, forces 4 and 5.	Light Winds, forces 2 and 3.	Calms and Light Airs, forces 0 and 1.	No Record.	Highest Hourly Wind.				Highest Gust with Date and Time.			
	Above Mean Sea Level.	Above Ground.	Above Building.	Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Velocity.		Date and Hour.					
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.			m/s.	d.	h.	m.
1. SCOTLAND, E.																			
Dyce	220	75	‡15**	—	—	—	—	5	153	1	7	NE.	6	27th	9h.	16	27th	9	20
Aberdeen*	153	105	37 †	—	—	27, 28	6	120	28	0	14	E. by N.	13	27th	9h.	19	27th	7	7
			52 †																
Edinburgh	485	30	31	—	—	—	—	95	65	2	6	NE. by E.	11	29th	17h.	19	29th	14	45
6. SCOTLAND, W.																			
Eskdalemuir	850	50	22	—	—	28 to 3	35	95	36	2	0	NE. by N.	16	29th	13h.	22	29th	12	55
Paisley	188	81	52	—	—	—	—	26	120	22	0	ENE.	9	29th	13h.	23	29th	12	9
2. ENGLAND, N.E.																			
Alnwick Castle	340	70	17	—	—	—	—	29	90	49	0	N.	7	3rd	14h.	14	4th	4	20
South Shields	72	61	12	—	—	29th	5	88	74	1	0	E. by N.	14	29th	11h.	19	29th	10	50
Spurn Head	66	40	‡	—	—	29, 2, 3	7	100	59	2	0	ENE.	12	2nd	22h.	16	2nd	21	14
3. ENGLAND, E.																			
Gorleston	52	42	‡	—	—	27, 3, 4	28	72	59	9	0	—	13	3rd	17h.	19	3rd	15	55
Shoeburyness	103	90	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
4. MIDLAND COUNTIES																			
Benson	270	81	‡	—	—	3rd	6	64	67	31	0	NNE.	11	3rd	15h.	20	3rd	14	15
5. ENGLAND, S.E.																			
Dover	271	49	‡	—	—	27, 29, 3, 4	34	57	34	21	22	—	14	27th	17h.	22	3rd	18	36
Warlingham	642	33	‡	—	—	—	—	8	91	66	3	—	6	29th	8h.	14	3rd	17	50
Brighton	261	53	6	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Kew Observatory ..	82	65	6 †	—	—	—	—	44	96	22	6	NNE.	9	3rd	13h.	15	3rd	12	52
			22 †																
South Kensington ..	123	92	30	—	—	—	—	—	98	70	0	N. by E.	5	3rd	12h.	10	3rd	12	24
7. ENGLAND, N.W.																			
Carnforth	246	56	23	—	—	—	—	13	109	46	0	NNE.	8	29th	8h.	16	29th	8	36
Southport	80	62	48	—	—	29, 2, 3	12	103	51	2	0	NE. by E.	13	29th	10h.	18	29th	8	34
Holyhead*	60	40	‡	—	—	29 to 3	50	108	10	0	0	NE. by N.	17	29th	11h	21	29th	10	43
8. ENGLAND, S.W.																			
Pendennis Castle§ ..	256	65	24	—	—	1, 3, 4	18	66	73	11	0	NNE.	15	3rd	11h.	22	3rd	9	37
Plymouth	185	88	2	—	—	—	—	42	98	28	0	—	10	1st	13h.	16	3rd	16	0
10. IRELAND, S.																			
Quilty	100	40	‡	—	—	29 to 3	37	63	61	7	0	—	15	1st	13h.	20	1st	11	40
Weaver Pt.	160	30	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11. ENGLISH CHANNEL.																			
Scilly*	150	32	‡	—	—	29 to 3	30	45	74	19	0	NNW.	14	1st	9h.	21	1st	9	20
		19																	

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

** Above tops of trees.

‡ Standard mounting.

§ Direction from the Robinson Anemometer at Falmouth Observatory.

† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew), and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

NINTH WEEK—February 27th to March 4th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	43	22	76·4	72·3	74·3	− 2·0	0	− 6	54	+ 18	6	+ 1	0·33	8	− 15	2·1	−0·3	21	1007
Eastern.																			
1. SCOTLAND, EAST ...	43	23	76·2	71·9	74·0	− 1·9	0	− 7	57	+ 16	6	+ 2	1·01	26	+ 13	2·1	−0·6	21	1004
2. ENGLAND, N.E.	47	27	77·7	73·6	75·6	− 1·1	0	− 10	37	+ 4	7	+ 3	1·07	27	+ 18	2·3	−0·7	22	999
3. ENGLAND, EAST ...	48	27	78·3	73·3	75·8	− 1·0	0	− 13	35	− 2	6	+ 1	0·75	19	+ 10	2·1	−0·9	20	996
4. MIDLAND COUNTIES ...	45	25	76·8	72·3	74·5	− 2·3	0	− 14	51	+ 15	5	+ 1	1·00	26	+ 15	1·6	−1·1	15	997
5. ENGLAND, S.E.	48	24	78·3	73·2	75·7	− 1·7	0	− 15	36	+ 7	5	+ 1	1·19	30	+ 18	1·9	−1·2	18	995
Western.																			
6. SCOTLAND, WEST ...	44	17	77·6	72 3	74·9	− 2 0	0	− 9	46	+ 16	4	0	0·27	7	− 14	2·7	+0·1	26	1003
7. ENGLAND, N.W.	45	24	77 4	73·1	75 2	− 2·0	0	− 11	43	+ 14	5	+ 2	0·74	19	+ 5	2·4	−0·4	23	999
8. ENGLAND, S.W.	47	18	77·4	72·2	74·8	− 3·2	0	− 17	48	+ 24	4	+ 1	0·79	20	+ 2	3·0	−0·1	28	996
9. IRELAND, NORTH ...	45	18	77·7	72·6	75·1	− 2·6	0	− 15	44	+ 19	5	0	0·43	11	− 6	2·9	+0·2	28	1004
10. IRELAND, SOUTH ...	48	20	78·1	72·6	75 2	− 3·5	0	− 21	42	+ 23	5	+ 1	0·43	11	− 8	3·5	+0·3	33	1003
11. ENGLISH CHANNEL ...	48	32	79·0	75·1	77·0	− 2·6	2	− 21	22	+ 13	6	+ 2	1·55	39	+ 24	2·6	−1·2	24	995

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 1 Week, February 27th to March 4th, 1916.

0. SCOTLAND, NORTH ...	43	22	76·4	72·3	74·3	− 2·0	0	− 6	54	+ 18	6	+ 1	0·33	8	− 15	2·1	−0·3	21	1007
Eastern.																			
1. SCOTLAND, EAST ...	43	23	76·2	71·9	74·0	− 1·9	0	− 7	57	+ 16	6	+ 2	1·01	26	+ 13	2·1	−0·6	21	1004
2. ENGLAND, N.E.	47	27	77·7	73·6	75·6	− 1·1	0	− 10	37	+ 4	7	+ 3	1·07	27	+ 18	2·3	−0·7	22	999
3. ENGLAND, EAST ...	48	27	78·3	73·3	75·8	− 1·0	0	− 13	35	− 2	6	+ 1	0·75	19	+ 10	2·1	−0·9	20	996
4. MIDLAND COUNTIES ...	45	25	76·8	72·3	74·5	− 2·3	0	− 14	51	+ 15	5	+ 1	1·00	26	+ 15	1·6	−1·1	15	997
5. ENGLAND, S.E.	48	24	78·3	73·2	75·7	− 1·7	0	− 15	36	+ 7	5	+ 1	1·19	30	+ 18	1·9	−1·2	18	995
Western.																			
6. SCOTLAND, WEST ...	44	17	77·6	72·3	74·9	− 2·0	0	− 9	46	+ 16	4	0	0·27	7	− 14	2·7	+0·1	26	1003
7. ENGLAND, N.W.	45	24	77·4	73·1	75·2	− 2·0	0	− 11	43	+ 14	5	+ 2	0·74	19	+ 5	2·4	−0·4	23	999
8. ENGLAND, S.W.	47	18	77·4	72·2	74·8	− 3·2	0	− 17	48	+ 24	4	+ 1	0·79	20	+ 2	3·0	−0·1	28	996
9. IRELAND, NORTH ...	45	18	77·7	72·6	75·1	− 2·6	0	− 15	44	+ 19	5	0	0·43	11	− 6	2·9	+0·2	28	1004
10. IRELAND, SOUTH ...	48	20	78·1	72·6	75·2	− 3·5	0	− 21	42	+ 23	5	+ 1	0·43	11	− 8	3·5	+0·3	33	1003
11. ENGLISH CHANNEL ...	48	32	79·0	75·1	77·0	− 2·6	2	− 21	22	+ 13	6	+ 2	1·55	39	+ 24	2·6	−1·2	24	995

THE YEAR.—Aggregates, &c., for the Period of 9 Weeks, January 2nd to March 4th, 1916.

0. SCOTLAND, NORTH ...	53	22	79·7	74·7	77·2	+ 0·9	102	+ 42	232	− 98	53	+ 7	15·81	401	+123	1·6	+0·2	20	1004
Eastern.																			
1. SCOTLAND, EAST ...	57	7	79·7	74·0	76·9	+ 1·0	96	+ 28	301	− 76	42	+ 7	7·29	187	+ 61	2·2	+0·2	27	1007
2. ENGLAND, N.E.	60	23	80·9	75·4	78·2	+ 1·5	160	+ 80	189	−112	35	+ 2	4·09	105	+ 18	2·2	+0·2	25	1011
3. ENGLAND EAST ...	56	24	81·0	75·4	78·3	+ 1·8	169	+ 79	187	−152	39	+ 5	5·27	133	+ 48	2·1	−0·1	23	1013
4. MIDLAND COUNTIES ...	58	23	80·9	75·2	78·1	+ 1·6	172	+ 68	210	−126	37	+ 4	5·40	138	+ 31	1·8	−0·1	21	1013
5. ENGLAND, S.E.	57	15	81·4	76·1	78·8	+ 1·5	200	+ 82	155	−104	41	+ 9	6·33	161	+ 48	2·1	0·0	23	1015
Western.																			
6. SCOTLAND, WEST ...	54	17	80·4	75·4	78·0	+ 0·9	128	+ 39	183	− 79	49	+ 9	9·13	232	+ 7	2·0	+0·3	23	1010
7. ENGLAND N.W.	58	24	81·1	76·3	78·7	+ 1·5	167	+ 73	150	−101	44	+ 8	7·18	182	+ 38	1·7	−0·1	20	1012
8. ENGLAND, S.W.	57	18	81·3	76·8	79·1	+ 1·0	194	+ 43	134	− 65	45	+ 9	8·80	226	+ 48	1·9	−0·3	21	1015
9. IRELAND NORTH ...	56	18	81·3	75·7	78·6	+ 0·8	172	+ 47	166	− 51	49	+ 7	6·87	175	+ 7	2·2	+0·3	26	1010
10. IRELAND, SOUTH ...	59	20	82·1	76·6	79·4	+ 0·7	221	+ 35	121	− 44	53	+15	7·62	193	+ 1	2·2	0·0	24	1014
11. ENGLISH CHANNEL ...	56	30	82 4	78·7	80·6	+ 0·8	274	+ 55	43	− 36	49	+ 8	8·51	215	+ 65	2·1	−0·6	23	1016
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F			inches.	mm.	m.m.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., March 9th, 1916.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 10. SUNDAY, MARCH 5TH, TO SATURDAY, MARCH 11TH, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE TENTH WEEK OF 1916.

The cold wintry type of conditions was maintained throughout the week, with frequent falls of snow, particularly in the east of the country. The deficiency of temperature amounted to about 3° A. (5°·5 F.) in nearly all districts, the greatest departure from the normal being 3°·9 A. (7° F.) in England South-West. In most parts of the country the highest temperature of the week did not much exceed 277° A. (40° F.) though somewhat higher temperatures were recorded in Ireland and the Channel Islands. Minima fell generally to between 269° and 272° A. (25° and 30° F.). A few stations showed records below 266° A. (20° F.) while the lowest reading was 264°·7 A. (17° F.) at Llangammarch Wells on the 5th. Minima on the grass fell to 261°·3 A. (11° F.) both at this station and at Wisley, Surrey. Precipitation, chiefly in the form of snow, was in excess of the average in the east of the country, where measurements were made on nearly every day of the week. In the west there was a deficiency and in Scotland West and Ireland North only 2 mm. fell in the course of the week. There were few individual heavy falls, 15 mm. in one day being very seldom exceeded. Sunshine was scanty in the east of the country, but moderate elsewhere. Aurora was observed at Lerwick and Aberdeen on Sunday night. Sea temperature was below the normal everywhere except in the north-east of England. The deficit amounted to 2°·0 A. (3°·6 F.) in Ireland North-West.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		ENGLAND, E.		NORTH WALES.		ENGLAND, S.W.		IRELAND, S.	
	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.
		m/s		m/s		m/s		m/s		m/s
South	1	3·1	1	2·0	0	—	¼	1·9	0	—
North	6	4·5	6	4·2	7	6·1	6	5·1	7	3·9
West	1	1·7	2	1·9	¼	2·7	0	—	1	1·9
East	5	3·8	5	9·1	7	7·8	6	6·4	6	3·7
Calm	0	—	0	—	0	—	0	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH AVERAGE.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. (*See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year ...	Warmth ...	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Very deficient	Deficient	Deficient	Deficient
	Rainfall ...	Very light	Moderate	Very heavy	Heavy	Heavy	Heavy	Light	Light	Light	Very light	Light	Moderate
	Sunshine ...	Moderate	Scanty	Scanty	Very scanty	Very scanty	Scanty	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate

II.—THE SPRING SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SPRING. 2 week from Feb. 27th, 1916.	Warmth ...	0, 0, 2	0, 0, 2	0, 0, 2	0, 1, 1	0, 0, 2	0, 0, 2	0, 0, 2	0, 0, 2	0, 0, 2	0, 0, 2	0, 0, 2	0, 0, 2
	Rainfall ...	0, 0, 2	1, 1, 0	2, 0, 0	2, 0, 0	2, 0, 0	2, 0, 0	0, 0, 2	0, 1, 1	0, 1, 1	0, 1, 1	0, 0, 2	1, 1, 0
	Sunshine ...	0, 2, 0	0, 1, 1	0, 1, 1	0, 0, 2	0, 0, 2	0, 0, 2	0, 2, 0	0, 2, 0	0, 2, 0	0, 2, 0	0, 2, 0	0, 1, 1

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1° A. = increment of $\frac{9}{5}$° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(7642—19.) Wt. 160—610. 450. 3/16. D & S. G. 17/ 86.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts	Lowest Reading.	Mean.	Deviation from Average.	Mean.	Deviation from Average.	
0. SCOTLAND, N.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
p Baltasound	*31*																						*Baltasound.*
a Islands .. *a* Lerwick ..	54	42	8, 9	28	5th	39·6	31·1	35·2	- 3·2	4	0·31	8	—	2·4	- 0·5	22	•	•	•	•	•	•	Deerness.
a Stornoway	51	44	9, 10	28	11th	41·7	32·1	36·8	- 2·4	6	0·31	8	- 16	3·9	+ 1·0	36	•	•	•	•	•	•	Stornoway.
a Castlebay, Barra Isd.	*37*	*44*	*10th*	*32*	*5th*	*41·9*	*34·6*	*38·1*	*- 2·9*	*4*	*0·18*	*5*	—	*3·4*	—	*31*	•	•	•	•	•	•	*Castlebay.*
a Wick	81	43	10th	25	11th	40·0	32·4	36·1	- 2·6	6	0·35	9	- 4	•	•	•	•	•	•	•	•	•	
b, Mainland. *p* Strathpeffer	200	41	10th	28	10th	39·4	31·0	35·1	- 3·0	4	0·13	3	- 13	1·8	- 0·9	17	•	•	•	•	•	•	Strathpeffer.
p Glencarron	500	40	10th	24	11th	37·3	27·3	32·2	- 5·3	1	0·07	2	- 43	•	•	•	•	•	•	•	•	•	
p Fort Augustus	68	41	5, 9, 10	29	11th	39·6	32·0	35·7	- 2·9	4	0·10	3	- 20	2·4	+ 0·2	22	•	•	•	•	•	•	Fort Augustus.
p Fort William	171	42	10th	27	8th	40·1	29·9	34·9	- 4·9	5	0·08	2	- 39	•	•	•	•	•	•	•	•	•	
1. SCOTLAND, E.														2·0	—	18	7	20	35·1	-1·8	37·7	-0·2	Crathes.
p Gordon Castle	101	43	9th	23	8th	38·7	29·4	33·9	- 5·6	6	0·37	9	- 4	*1·9*	—	*17*	•	•	•	•	•	•	*Gordon Castle.*
a Nairn	82	41	9, 10	25	11th	39·0	29·6	34·2	- 4·6	6	0·25	6	- 5	2·6	—	24	•	•	•	•	•	•	Nairn.
a Aberdeen	46	43	9th	30	5th	40·1	32·9	36·4	- 2·8	7	0·44	11	- 2	3·1	- 0·3	28	•	•	•	•	38·8	-0·4	Aberdeen.
a Balmoral	930	36	9–11	24	5, 7, 11	35·0	25·9	30·3	- 4·7	6	1·34	34	+ 17	•	•	•	7	18	•	•	•	•	Balmoral.
p Crieff	432	40	7, 10	28	6, 7, 9, 11	37·9	28·6	33·1	- 6·0	5	0·30	8	- 10	•	•	•	•	•	•	•	•	•	Balruddery.
a Leith	18	40	7, 10	32	5, 7	38·4	32·9	35·6	- 4·9	7	0·60	15	+ 6	•	•	•	•	•	•	•	•	•	
a West Linton	769	36	5–9	18	7th	35·7	26·6	31·0	- 5·2	6	0·52	13	—	*2·2*	—	*20*	7	22	•	•	•	•	*West Linton.*
p Marchmont	498	39	10th	28	11th	36·6	29·9	33·2	- 4·8	5	0·97	25	+ 11	1·1	- 2·0	10	5	24	•	•	•	•	Marchmont.
a Edinburgh	*441*	*39*	*10th*	*30*	*6, 7, 11*	*36·6*	*30·9*	*33·7*	—	*6*	*0·31*	*8*	—	1·6	—	15	7	24	•	•	•	•	Edinburgh.
6. *a* SCOTLAND, W.																							
a Poltalloch	132	42	7th	25	6th	40·0	29·6	34·7	- 4·7	2	0·05	1	- 20	•	•	•	•	•	•	•	•	•	
p Glasgow Observatory	180	40	5, 10	30	7th	38·1	32·1	35·0	- 4·6	2	0·19	5	- 10	1·5	- 0·8	14	6	23	•	•	•	•	Glasgow.
p Rothesay	170	40	5, 7, 10	30	11th	38·9	31·9	35·3	- 5·2	1	0·01	0·3	- 20	*1·6*	—	*15*	7	22	35·0	•	40·0	-1·9	*Rothesay.*
a Kilmarnock	90	41	5, 8, 7, 10	26	7th	40·1	29·6	34·7	- 5·1	4	0·07	2	—	*2·7*	—	*25*	•	•	•	•	•	•	*Kilmarnock.*
a Colmonell	170	41	5, 9, 10	25	5th	40·0	29·1	34·4	- 5·5	2	0·04	1	- 19	•	•	•	7	21	•	•	•	•	
a Dumfries	160	41	10th	29	6, 7	38·7	30·7	34·6	- 5·4	3	0·05	1	- 16	*3·0*	—	*28*	7	21	34·4	•	38·8	•	*Dumfries.*
Eskdalemuir	*799*	*37*	*10th*	*23*	*5th*	*34·6*	*27·4*	*30·9*	—	*3*	*0·04*	*1*	—	*3·1*	—	*28*	•	•	•	•	•	•	*Eskdalemuir.*
p Cally, Gatehouse	120	45	5th	26	5th	41·7	29·3	35·3	- 4·3	0	0·00	0	- 23	•	•	•	•	•	•	•	•	•	
b, I. OF MAN. *p* Douglas	277	42	10th	31	6th	40·0	32·4	36·1	- 4·8	5	0·19	5	- 13	3·5	- 0·1	32	7	25	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	41	10th	30	6th	37·6	31·4	34·4	- 5·0	7	1·18	30	+ 17	0·7	—	6	5	23	33·9	-2·8	38·3	-0·8	Cockle Park.
a Tynemouth	71	42	10th	30	5th	38·3	32·7	35·4	- 4·6	6	0·71	18	+ 8	•	•	•	•	•	•	•	•	•	*Tynemouth.*
p Durham	336	38	6, 7, 10	28	8th	36·4	30·0	33·1	- 5·7	7	1·17	30	+ 20	0·8	- 2·4	7	6	21	•	•	•	•	Durham.
a, North .. *p* Rounton	249	38	10th	28	5, 6, 11	36·3	29·6	32·9	- 5·9	7	0·89	23	+ 13	•	•	•	6	23	35·0	•	•	•	Rounton.
a West Witton	*605*	*38*	*10th*	*28*	*6, 11*	*35·6*	*29·1*	*32·3*	—	*7*	*1·60*	*41*	—	•	•	•	7	21	34·8	•	38·3	•	*West Witton.*
p Scarborough†	100	42	5, 10	31	6th	40·0	32·4	36·1	- 4·0	6	0·91	23	+ 12	2·6	—	24	•	•	•	•	42·5	•	Scarborough.
p York	56	40	7, 10	28	6th	38·7	31·7	35·1	- 5·1	7	0·70	18	+ 9	1·9	- 1·0	17	•	•	37·4	-1·1	41·0	+0·5	York.
b, South .. *a* Spurn Head	26	40	5th	30	6, 7	38·6	31·6	35·0	- 5·1	7	1·02	26	+ 18	*1·1*	—	*10*	•	•	•	•	•	•	*Spurn Head.*
a Lincoln	58	42	5th	29	6th	39·9	30·9	35·3	- 5·0	7	0·95	24	+ 15	•	•	•	•	•	35·4	-2·0	40·2	+0·5	Lincoln.
a Fulbeck	180	42	5th	26	5th	38·7	30·0	34·2	- 6·0	7	1·09	28	+ 19	2·2	—	20	5	26	37·7	-1·8	41·9	+0·1	Rauceby.
														2·4	—	22	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																							
p Cromer	196	40	7, 9	29	7th	38·4	31·7	35·0	- 4·2	7	0·52	13	—	1·0	—	9	•	•	•	•	•	•	Cromer.
p Little Massingham	280	40	5th	24	7th	36·1	28·3	32·1	- 7·7	7	1·01	26	+ 15	1·6	- 1·7	15	7	20	•	•	•	•	Lit. Massingham.
a, North .. *a* Yarmouth	13	41	5th	28	7th	38·4	32·3	35·3	- 4·1	6	0·87	22	+ 13	0·8	—	7	•	•	37·6	-1·7	42·6	+0·4	Yarmouth.
a Norwich	93	40	5, 7, 9, 11	26	9th	38·9	30·6	34·6	- 5·0	7	1·28	33	—	*1·0*	—	*9*	6	21	35·6	•	•	•	*Norwich.*
a Geldeston	37	44	5th	27	6th	39·6	31·0	35·2	- 4·9	7	0·86	22	+ 14	1·0	- 2·6	9	•	•	•	•	•	•	Geldeston.
p Cambridge	41	42	5, 9	27	9th	39·3	30·3	34·7	- 5·7	6	0·55	14	+ 6	1·3	- 2·2	12	5	23	37·4	-1·8	41·6	-0·3	Cambridge.
b, South .. *a* Clacton-on-Sea	54	42	5, 9	30	5–7	39·4	31·3	35·2	- 4·7	7	0·87	22	—	2·2	—	20	4	25	37·3	-3·0	42·0	-1·3	Clacton.
a Rothamsted	424	40	5th	25	9th	37·0	28·7	32·7	- 6·9	6	0·59	15	+ 4	1·6	- 1·7	14	5	12	35·3	•	•	•	Rothamsted.
p Tottenham	51	42	5, 9	29	9th	38·7	31·4	34·9	- 5·9	6	0·63	16	—	1·1	—	10	4	25	•	•	42·4	-0·1	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate	479	38	10th	27	6th	35·6	29·1	32·3	- 6·3	8	0·90	23	+ 11	1·1	—	10	6	18	35·5	-2·6	38·6	-0·8	Harrogate.
p Buxton	*987*	*37*	*5th*	*23*	*5th*	*34·0*	*27·4*	*30·6*	*- 6·4*	*6*	*0·57*	*14*	*- 9*	*1·2*	—	*11*	7	13	34·1	-3·2	39·1	-1·2	*Buxton.*
a Bawtry	65	41	5th	29	6, 7	38·0	30·7	34·2	- 6·1	6	1·18	30	+ 21	0·7	—	6	5	26	35·1	-2·6	40·2	+0·1	Sheffield.
a Nottingham	82	42	5th	29	5th	38·7	31·0	34·7	- 5·3	6	0·55	14	+ 5	1·0	- 1·9	9	7	19	36·9	•	40·1	•	Worksop.
b, East .. *p* Birmingham, Edgbsn.	535	40	5th	27	5th	36·6	29·6	33·0	- 6·8	6	0·31	8	- 2	1·8	—	16	5	23	34·5	-3·1	38·0	-1·1	Nottingham.
a Raunds	203	41	5, 9	24	5th	39·0	27·6	33·1	- 6·7	6	0·89	23	—	1·0	—	9	7	19	35·9	-3·4	42·2	-0·7	Birmingham.
p Oxford	208	43	9th	26	5, 9	38·6	30 0	34·2	- 6·6	5	0·40	10	+ 1	*1·8*	—	*16*	7	19	38·0	•	43·0	•	*Raunds.*
														1·9	- 1·3	17	4	18	•	•	•	•	Oxford.
a Cheadle	646	40	5, 9	27	5, 6, 9	37·3	28·4	32·7	- 6·2	5	0·39	10	- 3	•	•	•	7	24	•	•	•	•	Cheadle.
c, West .. *p* Shrewsbury	191	44	9th	26	5th	40·9	30·3	35·4	- 5·7	5	0·38	10	—	•	•	•	7	22	•	•	•	•	Shrewsbury.
a Hereford§	291	42	5, 9	24	5th	38·4	29·4	33·8	- 7·1	6	0·33	9	- 1	*1·7*	—	*15*	7	17	34·6	•	39·4	•	*Malvern.*§
a Bath	66	44	9th	26	5th	39·9	29·9	34·8	- 6·4	6	0·37	9	- 3	2·4	•	22	•	•	37·8	-3·0	42·6	- 0·8	Bath.
5. ENGLAND, S.E.														3·2	—	29	4	25	38·1	-2·8	43·1	0·0	Worthing.
a Marlborough	424	40	5, 7, 9, 10	18	9th	39·6	26·1	32·7	- 6·9	5	0·48	12	- 2	1·9	- 1·0	17	6	17	37·8	•	43·1	•	Marlborough.
a Margate	53	44	11th	31	7th	40·3	34·4	37·3	- 3·5	5	0·54	14	+ 5	1·6	- 1·9	14	2	25	38·4	-1·9	42·0	+0·3	Margate.
a Wisley, Surrey	150	41	5th	18	9th	37·6	27·7	32·5	- 9·0	5	0·90	23	—	1·0	—	*9*	5	11	36·4	-3·3	41·3	-0·8	Wisley.
p Salisbury (Wilton)	180	?42	5, 9	24	5th	?38·4	29·6	?33·9	?- 6·7	5	0·45	11	- 2	•	•	•	6	19	37·1	•	•	•	Salisbury.
a Tunbridge Wells	354	42	5th	26	7th	38·3	30·0	34·0	- 6·1	7	0·92	23	+ 10	1·2	- 2·2	11	4	18	37·4	-1·7	41·5	•	Tunbridge Wells.
a Dungeness	21	43	5th	27	7th	39·7	31·1	35·3	- 5·4	4	0·46	12	+ 3	•	•	•	•	•	•	•	•	•	Littlestone.
p Hastings	178	42	5th	29	7th	39·4	31·7	35·4	- 5·9	5	0·74	19	+ 7	2·6	- 1·3	23	6	23	37·0	•	42·3	•	Hastings.
p Southampton	64	44	9th	27	5th	39·1	31·0	34·9	- 7·7	7	0·43	11	- 2	2·7	- 0·9	24	5	18	•	•	•	•	Southampton.
a Ventnor	59	44	9th	29	5th	41·0	32·6	36·7	- 6·0	6	0·89	23	+ 11	3·6	- 0·4	32	•	•	•	•	•	•	Ventnor.
LONDON. *p* Kew	18	42	5th	28	9th	39·0	30·9	34·8	- 6·1	5	0·61	15	+ 6	1·4	- 1·5	13	4	19	36·5	-3·3	42·4	-0·2	Kew.
a Westminster	*27*	*43*	*5th*	*29*	*5th*	*40·5*	*38·2*	*36·2*	*- 5·0*	*6*	*0·99*	*25*	*+ 15*	*1·0*	*- 0·9*	*9*	3	25	•	•	•	•	*Westminster.*
a Greenwich	*155*	*41*	*5, 9*	*24*	*9th*	*39·0*	*30·6*	*34·7*	*- 6·9*	*5*	*0·71*	*18*	*+ 8*	*1·2*	*- 1·6*	*11*	5	20	•	•	•	•	*Greenwich.*
a Hampstead	*450*	*39*	*5, 9, 11*	*25*	*5th*	*36·7*	*28·2*	*32·3*	—	*6*	*0·57*	*14*	—	*1·8*	—	*16*	7	18	•	•	•	•	*Hampstead.*
a Camden Square	*110*	*44*	*5, 9*	*27*	*9th*	*40·3*	*30·4*	*35·2*	—	*6*	*0·74*	*19*	—	*1·2*	—	*11*	5	22	•	•	•	•	*Camden Square.*
7. *a*, ENGLAND, N.W.														1·6	—	15	•	•	•	•	•	•	Hoylake.
p Aspatria	250	41	10th	26	7th	38·3	29·3	33·7	- 5·3	3	0·13	3	- 13	2·4	—	22	7	22	36·2	•	41·3	•	Aspatria.
p Newton Rigg	559	39	5, 10	27	7th	36·7	29·3	32·9	- 5·1	4	0·14	4	- 12	1·7	- 1·4	15	7	21	36·1	-2·4	39·1	-0·6	Newton Rigg.
p Stonyhurst	375	41	5, 10	27	5th	39·0	30·4	34·6	- 4·7	5	0·20	5	- 16	2·4	- 0·5	22	5	20	•	•	•	•	Stonyhurst.
p Blackpool	66	43	5th	29	11th	40·9	31·3	36·0	- 4·2	0	0·00	0	- 14	2·3	- 0·7	21	6	15	38·1	•	43·4	•	Blackpool.
a Southport	*37*	*43*	*5th*	*29*	*7th*	*40·1*	*31·3*	*35·6*	*- 4·8*	*2*	*0·02*	*1*	*- 12*	*2·4*	*- 0·7*	*22*	6	20	35·6	-3·1	39·7	-0·7	*Southport.*
a Liverpool (Bidston)	188	40	5, 7, 9	30	7, 8	38·9	31·4	35·0	- 6·4	2	0·08	2	- 9	*1·5*	—	*14*	•	•	•	•	•	•	*Liverpool.*
a Hawarden Bridge	22	42	5, 7, 9	31	5, 6	40·3	32·4	36·2	- 5·3	3	0·35	9	0	*1·6*	—	*15*	5	25	35·1	-3·1	41·1	-0·5	*Manchester (City)*
p Manchester (Whit. Pk.)	125	42	5th	30	5th	38·7	32·1	35·3	- 5·4	4	0·17	4	- 7	*0·9*	*- 1·0*	*8*	•	•	•	•	•	•	" *(Whit. Park)*
b NORTH WALES.																							
p Llandudno	71	42	5th	28	5th	39·4	33·3	36·3	- 5·8	3	0·11	3	- 10	2·3	- 0·9	21	•	•	•	•	•	•	Llandudno.
Holyhead	15	45	5th	34	7, 10, 11	40·9	35·0	37·9	- 4·2	6	0·24	6	- 9	*3·3*	—	*30*	•	•	•	•	•	•	*Holyhead.*
p Bettws-y-Coed	148	42	6th	27	5th	39·0	31·0	34·9	- 6·7	7	0·33	8	—	2·2	—	20	•	•	36·0	-3·7	42·0	-0·6	Bettws-y-Coed.
														3·2	—	29	•	•	•	•	•	•	Aberdovey.

† Earth temperature at 3 ft

The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date,	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	Bright Sunshine. Hours per Day. Daily Mean	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	Ft	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F	
8. *a*, SOUTH WALES														3·3	—	30	•	•	•	•	•	•	Aberystwyth.
a Llangammarch Wells	550	40	5th	17	5th	37·3	27·8	32·4	− 7·0	6	0·25	6	—	1·8	—	16	6	11	35·7	−3·7	42·6	−0·2	Llangammarch.
a Pembroke	149	43	9th	31	5th	40·6	32·9	36·6	− 5·7	2	0·05	1	− 13	3·4	− 0·3	31	•	•	•	•	•	•	Pembroke.
p Cardiff	202	42	5, 9	27	5th	38·7	30·6	34·5	− 7·1	3	0·04	1	− 17	*2·6*	—	*23*	7	22	37·0	−2·7	42·7	+0·3	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	43	9th	26	5th	39·1	30·1	34·5	− 6·8	5	0·22	6	− 7	*2·5*	—	*23*	6	23	•	•	•	•	*Clifton.*
a Shaftesbury	722	41	5th	25	5th	36·7	28·3	32·4	− 7·1	6	0·39	10	− 3	•	•	•	•	•	35·9	•	41·0	•	Shaftesbury.
a Arlington	613	41	5th	19	5th	37·3	28·1	32·6	− 7·6	4	0·48	12	− 11	•	•	•	•	•	•	•	•	•	Arlington.
a Newquay	*190*	*43*	*5, 9*	*25*	*5th*	*40·6*	*31·9*	*36·1*	− *7·6*	*3*	*0·09*	*2*	− *12*	3·9	+ 0·1	35	?	18	39·9	•	44·5	•	Newquay.
a Cullompton	202	45	5th	22	5th	39·7	30·0	34·7	− 7·0	6	0·53	14	− 1	3·1	− 0·3	28	5	14	38·1	•	•	•	Cullompton.
a Portland Bill	19	42	5, 6, 9	30	7, 8	40·6	32·1	36·2	− 6·2	2	0·56	14	—	2·9	—	*26*	•	•	•	•	•	•	*Weymouth.*
p Plymouth	116	44	5th	27	5th	40·3	31·9	36·0	− 7·0	5	0·52	13	− 3	3·9	+ 0·2	35	•	•	37·9	−4·2	44·1	•	Plymouth.
a Falmouth	167	45	5th	28	5, 6	41·1	31·3	36·1	− 7·6	3	0·43	11	− 9	3·6	− 0·4	32	5	19	40·6	•	44·8	•	Falmouth.
9. IRELAND, N.																							
a, West .. *a* Malin Head	208	42	5th	32	11th	39·6	34·9	37·2	− 4·1	2	0·05	1	− 12	*2·9*	—	*27*	•	•	•	•	•	•	*Malin Head.*
a Blacksod Point ..	?	44	5th	32	8-11	41·3	33·1	37·1	− 5·9	2	0·20	5	− 17	•	•	•	•	•	•	•	•	•	
p Markree Castle ..	122	47	5th	20	11th	43·9	27·7	35·6	− 5·3	1	0·04	1	− 18	3·5	+ 0·5	32	7	19	38·3	•	42·5	•	Markree Castle.
a Birr Castle	175	44	6th	20	5th	40·4	27·9	34·0	− 7·1	3	0·20	5	− 8	*3·7*	+ *0·6*	*34*	•	•	•	•	•	•	*Birr Castle.*
b, East .. *p* Armagh	196	46	5th	29	8th	41·0	30·3	35·5	− 5·2	1	0·05	1	− 12	3·3	+ 0·4	30	7	20	37·4	−3·4	41·2	−1·8	Armagh.
a Donaghadee	101	42	5th	34	8th	40·4	35·0	37·6	− 4·0	0	0·00	0	− 13	•	•	•	4	23	39·6	−2·0	43·1	−1·2	Trinity Coll.
10. IRELAND, S.														3·1	− 0·4	28	1	19	•	•	•	•	Phœnix Park.
p Dublin, City	47	43	6, 9	31	5th	41·1	34·1	37·5	− 5·4	7	0·49	12	+ 1	•	•	•	1	27	•	•	•	•	Dublin City.
a, East .. *a* Kilkenny	212	43	6, 9	27	5th	41·1	31·0	35·9	− 5·7	5	0·12	3	− 11	•	•	•	•	•	•	•	•	•	
a Waterford	20	45	6th	29	5th	41·4	32·0	36·6	− 5·7	3	0·24	6	− 12	•	•	•	•	•	•	•	•	•	
a Seskin, Carrick-on-Suir	*541*	*42*	*6, 9*	*27*	*5, 8*	*39·3*	*29·1*	*34·1*	—	*4*	*0·11*	*3*	—	*2·8*	—	*25*	7	24	•	•	•	•	*Seskin.*
b, West .. *a* Birr Castle	175	44	6th	20	5th	40·4	27·9	34·0	− 7·1	3	0·20	5	− 8	3·7	+ 0·6	34	•	•	•	•	•	•	Birr Castle.
a Foynes	50	45	6th	28	5th	41·1	32·4	36·6	− 6·5	1	0·02	1	− 16	•	•	•	•	•	•	•	•	•	
a Cahir	198	46	6th	23	5th	41·6	29·3	35·3	− 6·8	4	0·13	3	—	•	•	•	•	•	•	•	•	•	
a Killarney	174	48	6th	25	5th	43·8	29·4	36·4	− 6·8	3	0·09	2	− 26	•	•	•	•	•	•	•	•	•	
a Valencia	30	47	6th	27	6th	42·4	31·1	36·6	− 8·0	1	0·01	0·2	− 27	4·6	+ 1·1	41	•	•	•	•	•	•	Valencia.
a Roche's Point	32	45	5, 6	31	5, 8	41·9	32·3	37·0	− 6·9	5	0·27	7	− 10	2·8	—	25	•	•	•	•	•	•	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	45	5th	35	7, 10	42·3	36·1	39·1	− 6·3	5	0·73	19	+ 5	3·2	− 0·8	29	•	•	•	•	•	•	Scilly.
a Jersey, St. Aubins ..	25	46	9th	30	8th	42·6	34·0	38·2	− 5·7	4	0·17	4	− 9	4·7	+ 0·5	42	•	•	•	•	•	•	St. Heliers.
a Guernsey (Villa Carey)	180	48	9th	32	7th	43·4	34·9	39·0	− 5·4	6	0·68	17	+ 2	4·0	− 0·2	36	0	31	39·6	−3·8	44·1	−0·9	Guernsey.†

†The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, March 11th, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Above Ground.	Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Gales, force 8 or more. Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	High Winds, forces 6 and 7. Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.		Date and Hour.		Highest Gust with Date and Time.		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.			m/s.	d.	h. m.
1. SCOTLAND, E.																		
Dyce	220	75	‡15**	—	—	—	—	20	112	36	0	NE.	7	11th	20h.	19	6th	7 . 9
Aberdeen*	153	105 / 37	‡	—	—	11th	13	68	74	13	0	E. by N.	15	11th	20h.	20	11th	19 . 1
Edinburgh	485	39	31	—	—	8th	2	102	32	8	24	NE. by N.	12	8th	17h.	18	8th	16 . 55
6. SCOTLAND, W.																		
Eskdalemuir	850	50	22	—	—	6 to 8, 11	32	92	44	0	0	NE. by N.	15	8th	8h.	23	8th	7 : 50
Paisley	188	81	52	—	—	—	—	56	88	24	0	NNE.	9	6th	13h.	20	8th	16 . 14
2. ENGLAND, N.E.																		
Alnwick Castle	340	70	17	—	—	—	—	23	117	28	0	N. by W.	10	6th	6h.	20	6th	6 . 24
South Shields	72	61	12	—	—	6, 8, 11	25	96	42	5	0	E.	13	11th	24h.	19	6th	6 . 50
Spurn Head	66	40	‡	—	—	5 to 8, 11	29	128	11	0	0	ENE.	13	6th	18h.	22	6th	16 . 12
3. ENGLAND, E.																		
Gorleston	52	42	‡	—	—	7, 8, 10, 11	33	82	53	0	0	—	14	7th	5h.	19	7th	22 . 11
Shoeburyness	103	90	‡	—	—	11th	1	79	86	2	0	ENE.	11	11th	11h.	14	11th	1 . 19
4. MIDLAND COUNTIES.																		
Benson	270	84	‡	—	—	—	—	80	69	19	0	NE.	6	10th	21h.	15	7th	13 . 9
5. ENGLAND, S.E.																		
Dover	271	40	‡	—	—	10th	5	87	47	16	13	—	12	10th	11h.	16	10th	10 . 35
Warlingham	642	33	‡	—	—	—	—	—	120	48	0	—	5	10th	15h.	11	7th	15 . 10
Brighton	281	53	6	—	—	—	—	22	126	13	7	—	8	10th	15h.	17	6th	15 . 16
Kew Observatory ..	82	65 / 6	/ 22 †	—	—	—	—	38	106	19	5	NE. by E.	8	10th	15h.	15	10th	15 . 40
South Kensington ..	123	92	30	—	—	—	—	—	101	67	0	ENE.	5	10th	17h.	11	10th	16 . 57
7. ENGLAND, N.W.																		
Carnforth	246	56	23	—	—	—	—	42	96	30	0	NNE.	9	8th	13h.	16	8th	12 . 42
Southport	80	62	48	—	—	6 to 8, 11	31	125	12	0	0	NE. by E.	14	8th	13h.	19	8th	13 . 45
Holyhead*	60	40	‡	—	—	6 to 11	93	72	3	0	0	NE. by N.	16	6th	21h.	20	6th	20 . 57
8. ENGLAND, S.W.																		
Pendennis Castle§ ..	256	65	24	—	—	6 to 10	58	85	21	4	0	NE. by E.	16	10th	11h.	22	6th	7 . 40
Plymouth	185	88	2	—	—	—	—	92	71	5	0	—	10	7th	10h.	18	7th	9 . 43
10. IRELAND, S.																		
Quilty	100	40	‡	—	—	9, 10	5	63	72	4	24	—	11	10th	12h.	18	10th	11 . 35
Weaver Pt.	160	30	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11. ENGLISH CHANNEL.																		
Scilly*	150	32 / 19	‡	—	—	6, 7	5	118	37	8	0	N. by W.	12	6th	8h.	21	7th	19 . 10

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer. ** Above tops of trees.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory.
† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew), and the latter is the height of the vane above the main roof

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

TENTH WEEK—March 5th to March 11th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	44	24	77·3	72·3	74·7	− 1·7	0	− 7	48	+ 13	4	− 1	0·19	5	− 21	2·6	0·0	24	1020
Eastern.																			
1. SCOTLAND, EAST ...	43	18	76·2	71·6	73·8	− 2·5	0	− 10	60	+ 22	6	+ 2	0·60	15	+ 1	2·1	−1·0	19	1018
2. ENGLAND, N.E.	42	26	76·5	72·5	74·4	− 2·8	0	− 14	52	+ 21	7	+ 3	0·96	24	+ 13	1·8	−1·6	16	1012
3. ENGLAND, EAST ...	44	24	76·6	72·2	74·3	− 2·9	0	− 17	53	+ 20	7	+ 4	0·80	20	+ 11	1·3	−2·1	12	1008
4. MIDLAND COUNTIES ...	44	24	76·5	71·7	74·0	− 3·3	0	− 18	57	+ 24	6	+ 3	0·57	15	+ 4	1·4	−1·6	13	1011
5. ENGLAND, S.E.	44	18	77·0	72·2	74·6	− 3·3	0	− 19	50	+ 24	5	+ 2	0·64	16	+ 5	2·1	−1·2	19	1007
Western.																			
6. SCOTLAND, WEST ...	45	25	77·3	72·2	74·7	− 2·5	0	− 11	49	+ 20	2	− 2	0·08	2	− 19	2·5	−0·5	23	1017
7. ENGLAND, N.W.	45	26	77·0	72·8	74·8	− 2·7	0	− 13	47	+ 21	4	0	0·18	4	− 10	2·3	−0·7	21	1013
8. ENGLAND, S.W.	45	17	76·9	72·1	74·4	− 3·9	0	− 20	52	+ 30	4	0	0·35	9	− 8	3·3	−0·1	30	1009
9. IRELAND, NORTH ...	47	20	78·1	72·7	75·3	− 2·6	0	− 17	41	+ 17	2	− 2	0·07	2	− 13	3·4	+0·5	31	1017
10. IRELAND, SOUTH ...	48	20	78·3	72·5	75·3	− 3·6	0	− 23	41	+ 22	4	0	0·17	4	− 14	3·6	+0·1	32	1015
11. ENGLISH CHANNEL ...	48	30	79·0	74·7	76·8	− 2·6	2	− 23	24	+ 15	5	+ 1	0·53	13	− 2	4·0	−0·2	36	1007

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 2 Weeks, February 27th to March 11th, 1916.

0. SCOTLAND, NORTH ...	44	22	76·9	72·3	74·5	− 1·9	0	− 13	102	+ 31	10	0	0·52	13	− 36	2·4	−0·1	23	1014
Eastern.																			
1. SCOTLAND, EAST ...	43	18	76·2	71·8	73·9	− 2·2	0	− 17	117	+ 38	12	+ 4	1·61	41	+ 14	2·1	−0·8	20	1011
2. ENGLAND, N.E.	47	26	77·1	73·1	75·0	− 2·0	0	− 24	89	+ 25	14	+ 6	2·03	51	+ 31	2·0	−1·2	19	1006
3. ENGLAND, EAST ...	48	24	77·5	72·8	75·1	− 1·9	0	− 30	88	+ 18	13	+ 5	1·55	39	+ 21	1·7	−1·5	16	1002
4. MIDLAND COUNTIES ...	45	24	76·7	72·0	74·3	− 2·8	0	− 32	108	+ 39	11	+ 4	1·57	41	+ 19	1·5	−1·3	14	1004
5. ENGLAND, S.E.	48	18	77·7	72·7	75·2	− 2·5	0	− 34	86	+ 31	10	+ 3	1·83	46	+ 23	2·0	−1·2	18	1001
Western.																			
6. SCOTLAND, WEST ...	44	17	77·5	72·3	74·8	− 2·3	0	− 20	95	+ 36	6	− 2	0·35	9	− 33	2·6	−0·2	24	1010
7. ENGLAND, N.W.	45	24	77·2	73·0	75·0	− 2·4	0	− 24	90	+ 35	9	+ 2	0·92	23	− 5	2·3	−0·6	22	1006
8. ENGLAND, S.W.	47	17	77·2	72·2	74·6	− 3·6	0	− 37	100	+ 54	8	+ 1	1·14	29	− 6	3·2	−0·1	29	1003
9. IRELAND, NORTH ...	47	18	77·9	72·7	75·2	− 2·6	0	− 32	85	+ 36	7	− 2	0·50	13	− 19	3·2	+0·4	29	1011
10. IRELAND, SOUTH ...	48	20	78·2	72·6	75·3	− 3·5	0	− 44	83	+ 45	9	+ 1	0·60	15	− 22	3·5	+0·2	32	1009
11. ENGLISH CHANNEL ...	48	30	79·0	74·9	76·9	− 2·8	4	− 44	46	+ 28	11	+ 3	2·08	52	+ 22	3·3	−0·7	30	1001

THE YEAR.—Aggregates, &c., for the Period of 10 Weeks, January 2nd to March 11th, 1916.

0. SCOTLAND, NORTH ...	53	22	79·4	74·5	77·0	+ 0·7	102	+ 35	280	− 85	57	+ 6	16·00	406	+102	1·7	+0·2	20	1006
Eastern.																			
1. SCOTLAND, EAST ...	57	7	79·4	73·8	76·6	+ 0·6	96	+ 18	361	− 54	48	+ 9	7·89	202	+ 62	2·2	+0·1	26	1008
2. ENGLAND, N.E.	60	23	80·4	75·1	77·8	+ 1·1	160	+ 66	241	− 91	42	+ 5	5·05	129	+ 31	2·1	0·0	24	1011
3. ENGLAND EAST ...	56	24	80·6	75·1	77·9	+ 1·4	169	+ 62	240	−132	46	+ 9	6·07	153	+ 59	2·0	−0·3	22	1013
4. MIDLAND COUNTIES ...	58	23	80·5	74·9	77·7	+ 1·1	172	+ 50	267	−102	43	+ 7	5·97	153	+ 35	1·8	−0·2	20	1013
5. ENGLAND, S.E.	57	15	81·0	75·7	78·4	+ 1·0	200	+ 63	205	− 80	46	+11	6·97	177	+ 53	2·1	−0·2	23	1014
Western.																			
6. SCOTLAND, WEST ...	54	17	80·1	75·1	77·7	+ 0·6	128	+ 28	232	− 59	51	+ 7	9·21	234	− 12	2·0	+0·2	23	1010
7. ENGLAND N.W.	58	24	80·7	76·0	78·4	+ 1·1	167	+ 60	197	− 80	48	+ 8	7·36	186	+ 28	1·8	−0·1	20	1012
8. ENGLAND, S.W.	57	17	80·8	76·4	78·6	+ 0·4	194	+ 23	186	− 35	49	+ 9	9·15	235	+ 40	2·1	−0·2	22	1014
9. IRELAND NORTH ...	56	18	81·0	75·4	78·2	+ 0·4	172	+ 30	207	− 34	51	+ 5	6·94	177	− 6	2·3	+0·3	26	1011
10. IRELAND, SOUTH ...	59	20	81·7	76·2	79·0	+ 0·3	221	+ 12	162	− 22	57	+15	7·79	197	− 13	2·3	0·0	25	1015
11. ENGLISH CHANNEL ...	56	30	82·0	78·3	80·2	+ 0·4	276	+ 32	67	− 21	54	+ 9	9·04	228	+ 63	2·3	−0·5	25	1016
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	m.m.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., March 16th, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 11. SUNDAY, MARCH 12TH, to SATURDAY, MARCH 18TH, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE ELEVENTH WEEK OF 1916.

There was an unusual prevalence of overcast, dull skies, but as regards temperature and precipitation the conditions were very irregular, the maximum and minimum temperatures being distributed all over the week, and while Fort Augustus had no rain at all, and a few other localities slight showers on one or two days, several stations had six or seven wet days. The mean temperature showed a deficiency of 1°·9 A. (3°·4 F.) in Scotland East, and at the opposite extreme England South-East had an excess of 1°·2 A. (2°·2 F.). On the 12th the maxima ranged from 273° A. (32° F.) at Balmoral to 286°·3 A. (56° F.) at Brighton. The highest maximum was 288° A. (59° F.) at Brighton on the 14th, and at Bath, Clifton, Over Court (Bristol) and Guernsey on the 18th. There was very little frost, but on the morning of the 17th Llangammarch Wells had a shade minimum of 269° A. (25° F.). The rainfall results were very varied, Scotland North less than 20 per cent. of the normal, and Scotland West 50, while the English Channel had 267, and the Midlands 322 per cent. At Marchmont on the morning of the 13th snow lay to a depth of 28 cm. There were no exceptionally heavy rainfalls, 20 mm. at Oxford, Cheadle and West Witton on the 15th being the heaviest. A thunderstorm occurred at Guernsey on the 12th, and between Bognor and Shoeburyness next day. Wet mist or fog was uncommonly prevalent, so that there was a marked deficiency of bright sunshine, a loss of from two hours to more than three hours per day in most districts. The temperature of the coastal sea water was about normal off the east and south-east of England, about 1°·7 A. (3° F.) below off the north and west of Ireland.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		ENGLAND, E.		NORTH WALES.		ENGLAND, S.W.		IRELAND, S.	
	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.
		m/s		m/s		m/s		m/s		m/s
South	5	3·7	3	1·0	2	1·8	6	3·6	2	2·1
North	1	1·7	3	1·6	2	2·9	1	2·3	4	2·7
West	1	1·2	0	—	1	0·7	¼	0·3	0	—
East	6	5·5	7	5·8	6	8·4	6	7·3	7	5·4
Calm	0	—	0	—	0	—	0	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH AVERAGE.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Deficient	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Very light	Heavy	Very heavy	Heavy	Very heavy	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Very heavy
	Sunshine ...	Scanty	Very scanty	Very scanty	Very scanty	Very scanty	Scanty	Very scanty	Scanty	Scanty	Very scanty	Very scanty	Scanty

II.—THE SPRING SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SPRING. 3 weeks from Feb. 27th, 1916.													
	Warmth ...	0, 1, 2	0, 0, 3	0, 1, 2	0, 2, 1	0, 1, 2	0, 1, 2	0, 1, 2	0, 1, 2	0, 1, 2	0, 1, 2	0, 1, 2	0, 1, 2
	Rainfall ...	0, 0, 3	2, 1, 0	3, 0, 0	3, 0, 0	3, 0, 0	2, 1, 0	0, 1, 2	0, 2, 1	0, 2, 1	0, 2, 1	0, 1, 2	2, 1, 0
	Sunshine ...	0, 2, 1	0, 1, 2	0, 1, 2	0, 0, 3	0, 0, 3	0, 0, 3	0, 2, 1	0, 2, 1	0, 2, 1	0, 2, 1	0, 2, 1	0, 1, 2

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1° A. = increment of $\frac{5}{9}$° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(7699—19.) Wt. 160—610. 450. 3/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.							Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts	Lowest Reading.	Mean	Deviation from Average.	Mean.	Deviation from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.	*31*																						
a, Islands .. *p Baltasound*																							*Baltasound.*
a Lerwick	54	45	18th	31	12th	40·1	33·9	36·9	- 1·5	7	0·72	18	—	1·2	- 2·0	11	•	•	•	•	•	•	Deerness.
a Stornoway	51	53	18th	31	12th	44·9	35·3	40·0	+ 0·6	2	0·05	1	- 23	3·9	+ 0·7	34	•	•	•	•	•	•	Stornoway.
a Castlebay, Barra Isd.	*37*	*48*	*18th*	*33*	*13th*	*43·9*	*37·3*	*40·5*	- *0·6*	*2*	*0·12*	*3*	—	*2·6*	—	*23*	•	•	•	•	•	•	*Castlebay.*
b, Mainland. *a* Wick	81	45	17th	32	12th	40·7	35·1	37·8	- 1·5	6	0·47	12	- 1	•	•	•	•	•	•	•	•	•	
p Strathpeffer	200	49	17th	30	18th	42·0	33·4	37·6	- 1·0	4	0·16	4	- 11	0·7	- 2·1	6	•	•	•	•	•	•	Strathpeffer.
p Glencarron	500	50	17th	31	12, 18	41·4	32·4	36·8	- 1·2	1	0·08	2	- 43	•	•	•	•	•	•	•	•	•	
p Fort Augustus	68	51	17th	29	18th	43·9	35·6	39·6	+ 0·6	0	0·00	0	- 21	2·0	- 0·4	18	•	•	•	•	•	•	Fort Augustus.
p Fort William	171	53	17th	31	18th	46·3	35·1	40·5	+ 0·3	2	0·03	1	- 38	•	•	•	•	•	•	•	•	•	
1. SCOTLAND, E.																							
p Gordon Castle	101	50	17th	31	12th	41·1	33·9	37·4	- 2·6	4	0·16	4	- 9	0·1	—	1	1	26	35·4	- 2·0	37·3	- 0·9	Crathes.
a Nairn	82	48	17th	28	12th	41·4	32·4	36·8	- 2·5	3	0·42	11	+ 1	*0·8*	—	*7*	•	•	•	•	•	•	*Gordon Castle.*
a Aberdeen	48	47	17th	33	12, 13, 18	40·4	34·7	37·5	- 2·3	6	0·75	19	+ 6	0·2	- 3·5	2	1·4	—	•	•	•	•	Nairn.
a Balmoral	930	44	17, 18	26	18th	38·9	29·4	33·0	- 2·5	4	1·03	26	+ 10	•	•	•	1·2	—	•	•	38·7	- 0·7	Aberdeen.
p Crieff	432	51	17th	28	12th	40·0	30·4	35·1	- 4·7	5	1·33	34	+ 16	0·7	—	6	•	•	5	24	•	•	Balmoral.
																	•	•	•	•	•	•	Balruddery.
a Leith	18	48	17th	33	12, 13	40·3	34·6	37·4	- 3·8	5	1·26	32	+ 23	•	•	•	•	•	•	•	•	•	
a West Linton	769	48	17th	29	12th	38·0	33·9	35·9	- 0·7	4	0·87	22	—	*0·8*	—	*7*	7	20	•	•	•	•	*West Linton.*
p Marchmont	498	48	17th	30	12th	38·4	31·9	35·1	- 3·5	6	1·81	46	+ 32	0·9	- 2·5	8	3	28	•	•	•	•	Marchmont.
a Edinburgh	*441*	*47*	*17th*	*31*	*12th*	*39·3*	*33·7*	*36·4*	—	*6*	*1·09*	*28*	—	0·4	—	4	2	28	•	•	•	•	Edinburgh.
6. *a* SCOTLAND, W.																							
a Poltalloch	132	54	18th	32	12th	45·7	34·4	39·9	- 0·4	1	0·16	4	- 16	•	•	•	•	•	•	•	•	•	
p Glasgow Observatory	180	50	17th	32	12th	41·4	35·1	38·2	- 1·8	5	0·49	12	- 2	0·8	- 1·8	7	1	30	•	•	•	•	Glasgow.
p Rothesay	170	48	18th	33	12th	41·9	35·1	38·4	- 2·5	4	0·17	4	- 15	*1·5*	—	*13*	3	29	37·3	•	40·0	- 1·8	*Rothesay.*
a Kilmarnock	90	54	18th	33	12, 18	45·6	35·4	40·4	+ 0·2	4	0·15	4	—	*1·5*	—	*13*	•	•	•	•	•	•	*Kilmarnock.*
a Colmonell	170	57	18th	30	15th	47·9	33·9	40·7	- 0·5	2	0·19	5	- 14	•	•	•	4	25	•	•	•	•	
a Dumfries	160	53	18th	34	12-14, 18	44·6	35·0	39·7	- 0·8	3	0·40	10	- 7	*1·4*	—	*12*	3	27	37·0	•	38·8	•	*Dumfries.*
Eskdalemuir	*799*	*50*	*17th*	*27*	*12th*	*39·3*	*31·3*	*35·2*	—	*4*	*0·87*	*22*	—	*0·8*	—	*7*	•	•	•	•	•	•	*Eskdalemuir.*
p Cally, Gatehouse	120	51	18th	32	12th	44·4	34·1	39·1	- 1·1	3	0·85	22	0	•	•	•	•	•	•	•	•	•	
b, I. OF MAN. *p* Douglas	277	48	16, 18	33	13th	43·9	35·7	39·7	- 1·7	3	0·74	19	+ 2	1·3	- 2·8	11	1	28	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
a, North .. *a* Alnwick Castle	210	50	17th	30	18th	40·4	34·1	37·2	- 2·6	5	1·62	41	+ 27	1·0	—	9	3	28	35·8	- 1·4	37·9	- 1·3	Cockle Park.
a Tynemouth	71	45	17th	34	12th	39·7	36·0	37·8	- 2·5	6	1·18	30	+ 19	•	•	•	•	•	•	•	•	•	*Tynemouth.*
p Durham	336	51	17th	31	18th	40·0	33·7	36·8	- 2·8	7	1·20	31	+ 21	1·0	- 2·5	9	1	26	•	•	•	•	Durham.
p Rounton	249	50	17th	31	18th	40·3	34·1	37·1	- 2·3	5	0·72	18	+ 8	•	•	•	0	31	[36]·7	•	•	•	Rounton.
a West Wilton	*605*	*51*	*17th*	*31*	*12th*	*39·0*	*32·6*	*35·7*	—	*6*	*1·85*	*47*	—	•	•	•	2	29	34·9	•	37·7	•	*West Wilton.*
p Scarborough†	100	48	17th	33	12, 13	41·0	35·7	38·3	- 2·6	6	0·78	20	+ 10	0·6	—	5	•	•	•	•	42·0	•	Scarborough.
p York	56	52	17th	35	12-14	41·3	37·1	39·1	- 1·7	5	1·12	28	+ 19	1·1	- 2·0	9	•	•	38·7	- 0·5	40·8	+0·2	York.
b, South .. *a* Spurn Head	26	44	17th	32	14th	40·4	35·6	37·9	- 2·8	6	0·77	20	+ 12	*0·1*	—	*1*	•	•	•	•	•	•	*Spurn Head.*
a Lincoln	58	52	17th	34	12th	43·9	36·7	40·2	- 0·9	5	0·88	22	+ 13	•	•	•	•	•	37·9	- 0·2	39·9	- 0·1	Lincoln.
a Fulbeck	180	51	17th	33	12th	42·9	36·0	39·4	- 1·6	7	0·83	21	+ 12	0·6	—	5	0	32	39·2	- 1·0	41·2	- 0·8	Rauceby.
														0·0	—	0	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																							
a, North .. *p* Cromer	196	51	16, 18	34	12th	44·1	36·3	40·1	- 0·1	5	0·24	6	—	0·4	—	3	•	•	•	•	•	•	Cromer.
p Little Massingham	280	57	18th	33	12th	45·0	36·4	40·6	0·0	6	0·74	19	+ 8	0·5	- 3·2	4	0	31	•	•	•	•	Lit. Massingham.
a Yarmouth	13	46	16, 17, 18	36	12, 15	42·6	37·6	40·0	+ 0·1	4	0·26	7	- 1	0·5	—	4	•	•	40·6	+0·6	42·3	- 0·2	Yarmouth.
a Norwich	93	57	16, 18	35	12th	47·3	38·3	42·7	+ 2·3	7	0·51	13	—	*0·8*	—	*7*	7	32	38·9	•	•	•	*Norwich.*
a Geldeston	37	54	16, 18	36	12th	46·7	38·4	42·4	+ 1·6	7	0·31	8	- 1	0·9	- 3·0	8	•	•	•	•	•	•	Geldeston.
b, South .. *p* Cambridge	41	52	18th	36	12, 15	48·0	38·6	43·2	+ 1·9	5	0·40	10	+ 2	0·2	- 3·6	2	0	33	40·6	+0·1	41·6	-0·6	Cambridge.
a Clacton-on-Sea	54	48	16th	36	15th	44·6	38·6	41·5	+ 1·0	4	0·35	9	—	1·5	—	13	0	37	41·0	-0·2	42·1	-1·5	Clacton.
a Rothamsted	424	51	18th	32	12th	46·9	36·1	41·3	+ 1·0	6	1·01	26	+ 15	0·8	- 2·8	7	1	28	38·7	•	•	•	Rothamsted.
p Tottenham	51	55	18th	37	12th	49·2	?39·9	?44·4	?+ 2·9	3	0·54	14	—	0·6	—	5	0	34	•	•	42·3	-0·4	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate	479	50	17th	32	12, 13	40·3	33·6	36·9	- 2·4	6	1·61	41	+ 29	1·1	—	9	0	33	36·8	-1·7	38·4	-1·2	Harrogate.
p Buxton	*987*	*47*	*17th*	*31*	*12, 13*	*38·7*	*32·9*	*35·7*	- *1·9*	*7*	*1·43*	*36*	+ *12*	*0·3*	—	*3*	5	27	34·1	-3·4	38·5	-1·8	*Buxton.*
														0·8	—	7	0	31	36·5	-1·7	39·7	-0·4	Sheffield.
b, East .. *a* Bawtry	65	50	17th	33	12th	42·4	35·7	39·0	- 2·2	6	1·70	43	+ 34	0·7	- 2·4	6	2	28	38·9	•	40·1	•	Worksop.
a Nottingham	82	51	17th	32	12th	43·6	35·4	39·4	- 1·4	5	1·20	30	+ 21	0·4	—	3	1	30	38·2	-0·1	38·1	-1·1	Nottingham.
p Birmingham, Edgbsn.	535	50	18th	33	12th	43·7	36·7	40·1	- 0·2	5	0·98	25	+ 15	0·0	—	0	2	29	38·6	-0·9	41·9	-0·8	Birmingham.
a Raunds	203	53	17th	31	12th	47·0	35·3	41·0	+ 0·6	5	1·04	26	—	*0·0*	—	*0*	1	30	39·6	•	43·0	•	*Raunds.*
p Oxford	208	53	18th	35	12th	47·9	38·3	43·0	+ 1·5	6	1·47	37	+ 29	0·7	- 2·8	6	2	29	•	•	•	•	Oxford.
c, West .. *a* Cheadle	646	49	17th	32	12th	42·0	34·3	38·0	- 1·5	5	1·68	43	+ 30	•	•	•	0	31	•	•	•	•	Cheadle.
p Shrewsbury	191	52	17th	32	17th	45·3	35·9	40·5	- 1·3	4	0·54	14	—	•	•	•	0	31	•	•	•	•	Shrewsbury.
a Hereford§	291	52	18th	30	12th	46·4	34·6	40·3	- 1·2	6	0·84	21	+ 11	*0·6*	—	*5*	1	29	38·0	•	39·4	•	*Malvern.§*
a Bath	66	59	18th	34	12th	50·7	37·4	43·9	+ 2·1	5	0·38	10	- 2	1·5	—	13	•	•	40·9	-0·8	42·4	-1·1	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	53	14th	31	18th	47·9	35·3	41·4	+ 1·3	4	0·40	10	- 4	2·7	—	23	1	29	42·2	+0·8	43·2	-0·1	Worthing.
a Margate	53	57	16th	36	12th	48·4	39·7	43·9	+ 2·5	3	0·17	4	- 5	0·9	- 2·3	8	1	27	40·9	•	42·9	•	Marlborough.
a Wisley, Surrey	150	56	18th	35	12th	49·9	38·6	44·1	+ 1·9	5	1·33	34	—	1·7	- 2·1	15	0	34	42·4	+1·7	42·0	+0·1	Margate.
p Salisbury (Wilton)	180	57	14th	34	12th	50·7	38·3	44·3	+ 3·0	5	0·37	9	- 4	1·4	—	12	0	31	40·6	+0·2	40·9	-1·4	Wisley.
a Tunbridge Wells	354	55	16, 18	35	12, 14	51·6	38·1	44·7	+ 3·5	5	0·53	13	0	•	•	•	0	31	40·7	•	•	•	Salisbury.
														1·2	- 2·5	10	0	31	41·3	+1·7	41·4	•	Tunbridge Wells.
a Dungeness	21	52	16th	33	14th	47·7	38·6	43·0	+ 1·5	4	0·42	11	+ 2	•	•	•	•	•	•	•	•	•	
p Hastings	178	53	12, 14, 18	37	12th	50·6	40 6	45·5	+ 3·6	6	0·60	17	+ 5	2·8	- 1·5	24	0	31	41·8	•	42·0	•	Littlestone.
p Southampton	64	56	14th	35	12th	50·9	40·6	45·6	+ 2·3	5	0·56	14	+ 2	1·8	- 2·1	16	0	31	•	•	•	•	Hastings.
a Ventnor	59	53	18th	37	12th	49·4	39·7	44·4	+ 1·1	6	0·56	14	+ 2	2·2	- 2·2	19	•	•	•	•	•	•	Southampton.
																							Ventnor.
LONDON. *p* Kew	18	54	18th	36	12th	49·3	40·1	44·6	+ 3·0	5	0·82	21	+ 12	0·5	- 2·7	4	0	34	40·3	-0·2	42·1	-0·8	Kew.
a Westminster	*27*	*55*	*18th*	*36*	*12th*	*51·0*	*39·6*	*45·1*	+ *3·2*	*6*	*0·81*	*21*	+ *11*	*0·6*	- *1·5*	*5*	0	35	•	•	•	•	*Westminster.*
a Greenwich	*155*	*54*	*16th*	*36*	*12th*	*49·7*	*38·4*	*43·9*	+ *1·1*	*6*	*0·83*	*21*	+ *12*	*0·7*	- *2·4*	*6*	0	32	•	•	•	•	*Greenwich.*
a Hampstead	*450*	*53*	*18th*	*31*	*12th*	*47·3*	*35·7*	*41·3*	—	*6*	*1·11*	*28*	—	*0·8*	—	*7*	1	28	•	•	•	•	*Hampstead.*
a Camden Square	*110*	*55*	*18th*	*35*	*12th*	*50·3*	*38·9*	*44·4*	—	*6*	*0·93*	*24*	—	*0·6*	—	*5*	0	34	•	•	•	•	*Camden Square.*
7. *a*, ENGLAND, N.W.																							
p Aspatria	250	52	18th	33	12, 14	44·7	34·1	39·2	- 0·4	4	0·32	8	- 9	0·8	—	7	•	•	•	•	•	•	Hoylake.
p Newton Rigg	559	50	17th	32	13, 18	43·6	33·9	38·6	- 0·2	3	0·33	21	+ 6	2·2	—	19	2	29	38·4	•	41·0	•	Aspatria.
p Stonyhurst	375	51	17th	34	12, 13	42·4	35·9	39·1	- 0·7	4	0·66	17	- 4	1·1	- 2·3	9	4	28	37·7	-1·3	39·0	-0·8	Newton Rigg.
p Blackpool	66	49	18th	31	17th	44·0	35·9	39·8	- 0·9	4	0·48	12	- 2	0·9	- 2·4	8	1	30	•	•	•	•	Stonyhurst.
a Southport	*37*	*49*	*18th*	*33*	*17th*	*44·4*	*35·4*	*39·8*	- *1·1*	*4*	*0·45*	*11*	- *2*	0·1	- 3·2	1	2	25	39·5	•	42·9	•	Blackpool.
a Liverpool (Bidston)	188	49	18th	32	12th	44·9	34·6	39·6	- 2·8	3	0·43	11	0	*0·1*	- *3·4*	*1*	2	28	37·7	-2·0	39·6	-1·2	*Southport.*
a Hawarden Bridge	22	56	18th	32	17th	47·0	35·6	41·1	- 1·2	5	0·63	16	+ 7	*0·8*	—	*8*	•	•	•	•	•	•	*Liverpool.*
p Manchester (Whit. Pk.)	125	49	18th	35	12th	43·9	37·1	40·4	- 0·9	4	0·90	23	+ 12	*0·3*	—	*3*	0	32	37·3	-1·4	40·9	-0·8	*Manchester (City)*
														0·1	- *2·0*	*1*	•	•	•	•	•	•	" (Whit. Park)
b NORTH WALES.																							
p Llandudno	71	50	14, 16	34	17th	45·0	36·1	40·4	- 2·1	3	0·27	7	- 6	2·4	- 1·1	21	•	•	•	•	•	•	Llandudno.
Holyhead	15	52	17th	34	12th	47·1	37·7	42·3	- 0·1	3	0·45	12	- 3	*2·5*	—	*22*	•	•	•	•	•	•	*Holyhead.*
p Bettws-y-Coed	148	54	16th	35	12, 15	46·7	36·0	41·2	- 0·9	*3	0·30	8	—	2·3	—	20	•	•	38·9	-1·3	42·0	-0·6	Bettws-y-Coed.
														3·5	—	30	•	•	•	•	•	•	Aberdovey.

† Earth temperature at 3 ft

The temperature on the grass refers to Hereford.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.		Deviation from Normal.	Bright Sunshine. Hours per Day. Daily Mean	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
	Ft	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. a, SOUTH WALES														3·1	—	27	*	*	*	*	*	*	Aberystwyth.
a Llangammarch Wells	550	53	16, 17	25	17th	46·3	32·6	39·3	− 0·7	5	0·45	11	—	1·2	—	10	2	19	38·5	−1·4	42·0	−0·8	Llangammarch.
a Pembroke	149	51	18th	32	12th	46·3	38·3	42·2	− 0·3	3	0·22	6	− 7	1·8	− 2·2	16	*	*	*	*	*	*	Pembroke.
p Cardiff	202	55	18th	34	12th	48·6	37·1	42·7	+ 0·3	5	0·64	16	− 2	*1·4*	—	*12*	1	29	39·4	−0·6	42·1	−0·3	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	59	18th	32	12th	49·7	37·1	43·2	+ 1·4	5	0·50	13	0	*1·0*	—	*9*	0	31	*	*	*	*	*Clifton.*
a Shaftesbury	722	53	14, 18	31	12th	48·4	36·3	42·2	+ 2·1	5	0·46	12	− 1	*	*	*	*	*	39·3	*	41·2	*	Shaftesbury.
a Arlington	613	55	18th	30	12, 17	48·4	34·3	41·1	+ 0·5	4	0·33	9	− 13	*	*	*	*	*	*	*	*	*	Arlington.
a Newquay	*190*	*53*	*18th*	*33*	*12th*	*49·1*	*38·1*	*43·4*	*− 0·6*	*6*	*0·67*	*17*	*+ 4*	2·7	− 1·5	23	*	*	42·2	*	44·0	*	Newquay.
a Cullompton	202	57	14th	29	17th	51·1	35·3	43·0	+ 0·8	5	0·62	16	+ 2	3·2	− 0·6	28	2	23	40·9	*	*	*	Cullompton.
a Portland Bill	19	51	18th	35	12th	47·3	38·4	42·7	0·0	4	0·43	11	—	*1·9*	—	*16*	*	*	*	*	*	*	*Weymouth.*
p Plymouth	116	55	18th	34	12, 17	50·9	38·3	44·4	+ 0·9	6	0·58	15	0	3·4	− 0·7	29	*	*	41·3	−1·6	43·6	*	Plymouth.
a Falmouth	167	54	16th	33	12th	49·1	38·6	43·7	− 0·3	6	1·70	43	+ 24	2·6	− 1·7	22	3	27	43·0	*	44·6	*	Falmouth.
9. IRELAND, N.																							
a, West .. { a Malin Head	208	49	17th	33	12th	43·7	36·9	40·2	− 1·2	3	0·09	2	− 11	*2·4*	—	*21*	*	*	*	*	*	*	*Malin Head.*
a Blacksod Point ..	?	49	17th	32	12th	44·7	35·0	39·7	− 3·5	4	0·20	5	− 17	*	*	*	*	*	*	*	*	*	* *
p Markree Castle ..	122	53	17th	32	12th	47·0	35·4	41·0	− 0·1	6	0·53	13	− 5	1·0	− 2·3	9	1	30	40·2	*	42·1	*	Markree Castle.
a Birr Castle	175	50	14, 17	32	12th	45·6	35·9	40·6	− 0·8	6	0·73	19	+ 6	*0·8*	− 2·7	*7*	*	*	*	*	*	*	*Birr Castle.*
b, East .. { p Armagh	196	51	17th	33	12th	44·7	36·3	40·4	− 0·7	5	0·32	8	− 5	0·5	− 2·7	4	1	27	39·1	−2·2	41·1	−2·0	Armagh.
a Donaghadee	101	48	17th	33	12th	44·7	37·0	40·7	− 1·2	3	0·24	6	− 6	*	*	*	*	*	*	*	*	*	* *
10. IRELAND, S.														*	*	*	1	28	42·0	−0·1	43·1	−1·8	Trinity Coll.
														0·5	− 3·3	4	1	25	*	*	*	*	Phœnix Park.
a, East .. { p Dublin, City	47	51	17th	37	12, 17	45·7	38·6	42·1	− 1·1	5	0·78	20	+ 9	*	*	*	0	33	*	*	*	*	Dublin City.
a Kilkenny	212	49	16th	35	12th	46·0	38·7	42·2	+ 0·2	6	0·63	16	+ 3	*	*	*	*	*	*	*	*	*	* *
a Waterford	20	51	16th	34	12th	46·7	39·6	43·1	+ 0·3	5	0·65	16	0	*	*	*	*	*	*	*	*	*	* *
a Seskin, Carrick-on-Suir	*541*	*50*	*16th*	*33*	*12th*	*44·4*	*37·3*	*40·8*	—	*7*	*0·78*	*20*	—	*0·4*	—	*3*	0	31	*	*	*	*	*Seskin.*
b, West .. { a Birr Castle	175	50	14, 17	32	12th	45·6	35·9	40·6	− 0·8	6	0·73	19	+ 6	0·8	− 2·7	7	*	*	*	*	*	*	Birr Castle.
a Foynes	50	51	16, 17	34	12th	47·7	38·3	42·9	− 0·4	7	0·52	13	− 3	*	*	*	*	*	*	*	*	*	* *
a Cahir	199	51	16th	33	12, 17	46·6	37·4	41·9	− 0·6	6	0·42	11	—	*	*	*	*	*	*	*	*	*	* *
a Killarney	174	58	16th	34	12th	50·2	39·5	44·7	+ 0·6	6	0·49	12	− 15	*	*	*	*	*	*	*	*	*	* *
a Valencia	30	54	16th	34	12th	49·6	39·7	44·5	− 0·2	5	0·59	15	− 11	1·4	− 2·5	12	*	*	*	*	*	*	Valencia.
a Roche's Point	32	49	14, 16	32	12th	46·7	39·3	42·9	− 1·1	7	1·02	26	+ 9	0·7	—	6	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	54	16th	36	12th	50·1	42·0	45·9	+ 0·4	5	1·08	27	+ 13	3·4	− 1·0	29	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	57	18th	36	12th	51·7	41·4	46·4	+ 1·9	5	1·35	34	+ 21	3·0	− 1·6	26	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	59	18th	39	12, 16	51·7	41·9	46·7	+ 2·0	7	1·33	34	+ 20	3·1	− 1·5	27	0	32	43·5	−0·5	43·9	−1·3	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, March 18th, 1916.

District and Station.	Height. Above Mean Sea Level.	Above Ground.	Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.		Date and Hour.		Highest Gust with Date and Time.		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.			m/s.	d.	h. m.
1. SCOTLAND, E.																		
Dyce	220	75	‡15**	—	—	—	—	22	93	17	36	NE.	7	12th	12h.	15	12th	11 : 46
Aberdeen*	153	105	{37 52}†	—	—	12th	22	81	23	42	0	E. by N.	14	12th	2h.	20	12th	1 . 9
Edinburgh	485	39	31	—	—	—	—	52	95	21	0	ENE.	9	12th	14h.	15	12th	10 . 5
6. SCOTLAND, W.																		
Eskdalemuir	850	50	22	—	—	12th	16	86	39	27	0	NE. by E	14	12th	1h.	19	12th	1 . 2
Paisley	188	81	52	—	—	—	—	72	67	29	0	E.	9	12th	16h.	20	12th	14 . 29
2. ENGLAND, N.E.																		
Alnwick Castle	340	70	17	—	—	—	—	9	87	72	0	E.	7	12th	3h.	15	12th	2 . 55
South Shields	72	61	12	—	—	12th	15	63	42	48	0	E.	14	12th	3h.	19	12th	5 . 43
Spurn Head	66	40	‡	—	—	—	—	83	66	7	12	SE.	11	12th	8h.	15	12th	7 . 56
3. ENGLAND, E.																		
Gorleston	52	42	‡	—	—	12th	1	74	60	9	24	—	11	12th	8h.	13	12th	17 . 0
Shoeburyness	103	90	‡	—	—	12th	1	68	84	15	0	ENE.	11	12th	16h.	14	12th	15 . 49
4. MIDLAND COUNTIES.																		
Benson	270	84	‡	—	—	—	—	28	95	45	0	SE.	8	18th	12h.	14	12th	19 . 43
5. ENGLAND, S.E.																		
Dover	271	40	‡	—	—	—	—	26	21	44	77	—	11	13th	8h.	16	13th	7 . 25
Warlingham	642	33	‡	—	—	—	—	4	69	95	0	—	6	12th	19h.	12	13th	6 . 58
Brighton	261	53	6	—	—	13th	2	47	62	19	38	—	11	13th	9h.	20	13th	9 . 10
Kew Observatory ..	82	65	{6 22}†	—	—	—	—	46	75	47	0	E.	9	12th	16h.	14	14th	21 . 38
South Kensington ..	123	92	30	—	—	—	—	11	80	77	0	E.	7	12th	16h.	13	12th	18 . 30
7. ENGLAND, N.W.																		
Carnforth	246	56	23	—	—	—	—	50	75	43	0	NE. by E.	10	12th	12h.	16	12th	11 . 35
Southport	80	62	48	—	—	12, 13, 15	12	92	61	3	0	E. by N.	13	12th	17h	19	12th	19 . 4
Holyhead*	60	40	‡	13th	1	12 to 15	64	62	27	14	0	E. by N.	18	13th	6h.	23	13th	5 . 50
8. ENGLAND, S.W.																		
Pendennis Castle§ ..	256	65	24	13th	3	12 to 15, 17, 18	61	62	26	16	0	E.	19	13th	3h.	24	13th	2 . 47
Plymouth	185	88	2	—	—	14th	1	90	59	18	0	—	11	14th	11h.	18	13th	11 . 2
10. IRELAND, S.																		
Quilty	100	40	‡	—	—	13, 14	14	109	39	6	0	—	14	14th	14h.	20	14th	13 . 20
Weaver Pt.	160	30	‡	—	—	14, 18	13	113	30	12	0	—	13	14th	20h.	19	13th	6 . 52
11. ENGLISH CHANNEL.																		
Scilly*	150	{32 19}	‡	—	—	13, 14, 17, 18	23	70	54	21	0	ESE.	14	13th	10h.	20	13th	10 . 5

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.
† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew), and the latter is the height of the vane above the main roof

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

ELEVENTH WEEK—March 12th to March 18th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Accumulated Number of Day-Degrees. Deviation from Normal.	Accumulated Number of Day-Degrees. Below 42°	Accumulated Number of Day-Degrees. Deviation from Normal.	Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	53	29	79·0	74·3	76·6	− 0·3	2	− 7	26	− 5	3	− 2	0·22	5	− 22	2·0	−0·9	17	1013
Eastern.																			
1. SCOTLAND, EAST ...	51	26	77·2	73·4	75·2	− 1·9	0	− 15	42	+ 8	5	+ 1	0·95	24	+ 11	0·6	−2·8	5	1012
2. ENGLAND, N.E.	52	30	78·1	74·9	76·4	− 1·4	0	− 19	27	0	6	+ 3	1·01	26	+ 15	0·7	−3·3	6	1008
3. ENGLAND, EAST ...	57	32	80·8	76·2	78·4	+ 0·5	11	− 13	17	− 12	5	+ 2	0·48	12	+ 4	0·7	−3·3	6	1006
4. MIDLAND COUNTIES ...	59	30	80·2	75·1	77·6	− 0·4	8	− 16	23	− 6	5	+ 2	1·14	29	+ 20	0·7	−2·7	6	1006
5. ENGLAND, S.E.	57	31	82·8	76·9	79·8	+ 1·2	28	+ 4	8	− 14	5	+ 2	0·58	15	+ 5	1·7	−2·1	15	1005
Western.																			
6. SCOTLAND, WEST ...	57	30	79·9	74·6	77·2	− 0·6	7	− 9	26	+ 1	3	− 1	0·39	10	− 10	1·1	−2·3	9	1010
7. ENGLAND, N.W.	56	31	80·2	75·1	77·6	− 0·5	8	− 10	23	+ 1	4	0	0·53	14	+ 1	1·7	−1·7	14	1005
8. ENGLAND, S.W.	59	25	82·2	75·6	78·8	0·0	26	+ 2	15	− 3	5	+ 1	0·59	15	+ 1	2·6	−1·3	22	1003
9. IRELAND, NORTH ...	53	32	80·3	75·3	77·7	− 0·7	9	− 12	21	0	5	0	0·35	9	− 5	0·8	−2·5	6	1006
10. IRELAND, SOUTH ...	58	32	81·4	76·7	79·0	− 0·3	20	− 7	10	− 6	6	+ 2	0·65	16	0	0·9	−2·8	7	1002
11. ENGLISH CHANNEL ...	59	36	83·7	78·4	80·9	+ 0·6	31	+ 2	1	− 6	6	+ 2	1·25	32	+ 20	3·2	−1·6	27	1000

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 3 Weeks, February 27th to March 18th, 1916.

0. SCOTLAND, NORTH ...	53	22	77·6	73·0	75·2	− 1·3	2	− 20	128	+ 26	13	− 2	0·74	18	− 58	2·2	−0·4	21	1013
Eastern.																			
1. SCOTLAND, EAST ...	51	18	76·5	72·3	74·3	− 2·1	0	− 32	159	+ 46	17	+ 5	2·56	65	+ 25	1·6	−1·5	15	1011
2. ENGLAND, N.E.	52	26	77·4	73·7	75·5	− 1·7	0	− 43	116	+ 25	20	+ 9	3·04	77	+ 46	1·6	−1·8	14	1006
3. ENGLAND, EAST ...	57	24	78·6	73·9	76·2	− 1·1	11	− 43	105	+ 6	18	+ 7	2·03	51	+ 25	1·4	−2·1	12	1003
4. MIDLAND COUNTIES ...	59	24	77·8	73·0	75·4	− 2·0	8	− 48	131	+ 33	16	+ 6	2·71	70	+ 39	1·2	−1·8	11	1005
5. ENGLAND, S.E.	57	18	79·4	74·1	76·7	− 1·3	28	− 30	94	+ 17	15	+ 5	2·41	61	+ 28	1·9	−1·5	17	1002
Western.																			
6. SCOTLAND, WEST ...	57	17	78·3	73·0	75·6	− 1·7	7	− 29	121	+ 37	9	− 3	0·74	19	− 43	2·1	−0·9	19	1010
7. ENGLAND, N.W.	56	24	78·2	73·7	75·9	− 1·7	8	− 34	113	+ 36	13	+ 2	1·45	37	− 4	2·1	−0·9	19	1006
8. ENGLAND, S.W.	59	17	78·8	73·3	76·0	− 2·4	26	− 35	115	+ 51	13	+ 2	1·73	44	− 5	3·0	−0·5	27	1003
9. IRELAND, NORTH ...	53	18	78·7	73·5	76·0	− 2·0	9	− 44	106	+ 36	12	− 2	0·85	22	− 24	2·4	−0·5	21	1009
10. IRELAND, SOUTH ...	58	20	79·3	73·9	76·5	− 2·5	20	− 51	93	+ 39	15	+ 3	1·25	31	− 22	2·6	−0·8	24	1007
11. ENGLISH CHANNEL ...	59	30	80·6	76·1	78·2	− 1·7	35	− 42	47	+ 22	17	+ 5	3·33	84	+ 42	3·2	−1·1	29	1001

THE YEAR.—Aggregates, &c., for the Period of 11 Weeks, January 2nd to March 18th, 1916.

0. SCOTLAND, NORTH ...	53	22	79·4	74·5	77·0	+ 0·6	104	+ 28	306	− 90	60	+ 4	16·22	411	+ 80	1·7	+0·1	20	1007
Eastern.																			
1. SCOTLAND, EAST ...	57	7	79·2	73·8	76·5	+ 0·4	96	+ 3	403	− 46	53	+10	8·84	226	+ 73	2·1	−0·1	23	1008
2. ENGLAND, N.E.	60	23	80·2	75·1	77·7	+ 0·9	160	+ 47	268	− 91	48	+ 8	6·06	155	+ 46	2·0	−0·3	22	1010
3. ENGLAND EAST ...	57	24	80·6	75·2	77·9	+ 1·2	180	+ 49	257	−144	51	+11	6·55	165	+ 63	1·9	−0·6	20	1012
4. MIDLAND COUNTIES ...	59	23	80·5	74·9	77·7	+ 1·0	180	+ 34	290	−108	48	+ 9	7·11	182	+ 55	1·7	−0·4	18	1012
5. ENGLAND, S.E.	57	15	81·2	75·8	78·5	+ 1·0	228	+ 67	213	− 94	51	+13	7·55	192	+ 58	2·1	−0·3	22	1013
Western.																			
6. SCOTLAND, WEST ...	57	17	80·1	75·0	77·6	+ 0·4	135	+ 19	258	− 58	54	+ 6	9·60	244	− 22	1·9	−0·1	21	1010
7. ENGLAND N.W.	58	24	80·6	75·9	78·3	+ 1·0	175	+ 50	220	− 79	52	+ 8	7·89	200	+ 29	1·8	−0·3	19	1012
8. ENGLAND, S.W.	57	17	81·0	76·3	78·6	+ 0·4	220	+ 25	201	− 38	54	+10	9·74	250	+ 41	2·1	−0·3	22	1013
9. IRELAND NORTH ...	56	18	81·9	75·4	78·2	+ 0·4	181	+ 18	228	− 34	56	+ 5	7·29	186	− 11	2·2	+0·1	24	1010
10. IRELAND, SOUTH ...	59	20	81·7	76·2	79·0	+ 0·2	241	+ 5	172	− 28	63	+17	8·44	213	− 13	2·2	−0·2	23	1013
11. ENGLISH CHANNEL ...	59	30	82 2	78·3	80·3	+ 0·5	307	+ 34	68	− 27	60	+11	10·29	260	+ 83	2·4	−0·6	25	1014
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	m.m.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., March 23rd, 1916.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 45

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 12. SUNDAY, MARCH 19TH, TO SATURDAY, MARCH 25TH, 1916. *Price 6d., Post free 7d.* *Annual Subscription Post Paid £1 10s. 0d.*

I.—THE TWELFTH WEEK OF 1916.

The week began with relatively mild weather over a considerable portion of England and Ireland. In England East the themometer rose to 289° A. (61° F.). in England South-East to 287°·5 A. (58° F.), and in England South to 287° A. (57° F.). After the 20th, however, the conditions were again very wintry. The thermometer seldom rose above 280° A. (45° F.), and on the 22nd and 23rd remained below 277°·5 A. (40° F.) over a large area. Frost was experienced very generally at night, and was severe in places late in the period. At West Witton there was a minimum of 265° A. (18° F.) on the 24th, at Durham 266°·4 A. (20° F.), Raunds 267° A. (21° F.), while at Newton Rigg the screened thermometer fell to 259°·6 A. (8° F.) and that on the grass to 256°·4 A. (2° F.). In Ireland the lowest reading was 268° A. (23° F.). In the week as a whole the defect of temperature ranged from 0°·9 A. (1°·6 F.) in the English Channel to about 2°·2 A. (4° F.) over the northern districts of England. Precipitation occurred on most days over the Kingdom generally, and a very considerable proportion came as snow. Over most parts of England the total quantity was heavy—very heavy in the Midland Counties and England South-East. At Spurn Head on the 25th there was a fall of 27 mm. Late in the week the snowfall was rather heavy in Scotland and lay on the ground to a depth of 8 cm. to 10 cm. in several localities; at Glasgow and Rothesay the depth was at least 13 cm. Bright sunshine was scanty or very scanty in all districts except Scotland North. In a large part of Britain the mean daily duration was less than 2 hours—about 2·5 hours less than the average. Aurora was observed at Aberdeen and Kirkcaldy on the 24th and at Carrick-on-Suir on the 25th. On the 24th thunder and lightning occurred at Aspatria. The temperature of the coastal sea water differed little from the average in the north-east and south-west of England but was below it elsewhere, the largest divergence being 1°·8 A. (3°·2 F.) off the north-east of Scotland.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		ENGLAND, E.		NORTH WALES.		ENGLAND, S.W.		IRELAND, S.	
	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.
		m/s		m/s		m/s		m/s		m/s
South	—	—	2	3·7	1	4·4	2	4·4	1	1·9
North	—	—	5	4·3	5	3·7	4	3·6	6	2·7
West	—	—	1	4·0	2	6·1	3	5·7	2	6·4
East	—	—	6	5·1	5	8·0	4	4·8	5	3·6
Calm	—	—	0	—	0	—	0	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH AVERAGE.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. (*See below*, Note (1).		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Deficient	Deficient	Moderate	Moderate	Moderate	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient
	Rainfall ...	Moderate	Heavy	Heavy	Heavy	Very heavy	Very heavy	Moderate	Heavy	Heavy	Moderate	Moderate	Moderate
	Sunshine ...	Moderate	Scanty	Very scanty	Scanty	Very scanty	Very scanty	Scanty	Very scanty	Scanty	Scanty	Scanty	Scanty

II.—THE SPRING SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SPRING. 4 weeks from Feb. 27th, 1916.	Warmth ...	0, 2, 2	0, 0, 4	0, 1, 3	0, 3, 1	0, 2, 2	0, 2, 2	0, 1, 3	0, 1, 3	0, 1, 3	0, 1, 3	0, 1, 3	0, 1, 3
	Rainfall ...	0, 1, 3	3, 1, 0	4, 0, 0	4, 0, 0	4, 0, 0	3, 1, 0	0, 2, 2	1, 2, 1	1, 2, 1	0, 3, 1	0, 2, 2	2, 2, 0
	Sunshine ...	0, 3, 1	0, 1, 3	0, 1, 3	0, 0, 4	0, 0, 4	0, 0, 4	0, 2, 2	0, 2, 2	0, 2, 2	0, 2, 2	0, 2, 2	0, 1, 3

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.

Increment of 1° A. = increment of $\frac{9}{5}$° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(7755—19.) Wt. 160—610. 450. 3/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts	Lowest Reading.	Mean	Deviation from Average.	Mean.	Deviation from Average.	
0. SCOTLAND, N.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
a, Islands .. *p Baltasound*	*31*													*	*		*	*	*	*	*	*	*Baltasound.*
a Lerwick	54	44	20th	29	23, 25	40·9	33·9	37·3	- 1·4	6	1·34	34	—	2·3	- 1·3	19	*	*	*	*	*	*	Deerness.
a Stornoway	51	47	19, 20	31	23–25	42·7	35·3	38·9	- 1·1	6	1·22	31	+ 8	4·3	+ 0·7	36	*	*	*	*	*	*	Stornoway.
a Castlebay, Barra Isd. ..	*37*	*50*	*19th*	*31*	*23rd*	*44·7*	*36·7*	*40·6*	*- 1·0*	*4*	*0·28*	*7*	—	*5·8*	—	*48*	*	*	*	*	*	*	*Castlebay.*
b, Mainland. *a* Wick	81	44	20th	27	25th	41·0	33·6	37·2	- 1·7	7	0·68	17	+ 4	*	*	*	*	*	*	*	*	*	
p Strathpeffer	200	42	19th	29	25th	40·6	33·3	36·8	- 2·5	7	0·61	15	0	1·9	- 1·2	16	*	*	*	*	*	*	Strathpeffer.
p Glencarron	500	42	19th	27	24, 25	39·1	31·6	35·2	- 3·6	6	1·02	26	- 17	*	*	*	*	*	*	*	*	*	
p Fort Augustus.. ..	68	45	24th	30	23, 25	40·9	34·4	37·6	- 2·2	5	0·63	16	- 4	1·9	- 0·8	16	*	*	*	*	*	*	Fort Augustus.
p Fort William	171	48	19th	29	23rd	43·4	33·1	38·1	- 2·9	4	0·65	17	- 20	*	*	*	*	*	*	*	*	*	
1. SCOTLAND, E.														1·7	—	14	3	23	37·8	-0·7	37·8	-0·9	Crathes.
p Gordon Castle	101	43	20, 22	30	23, 25	41·3	32·6	36·8	- 4·0	7	0·77	20	+ 7	*1·9*	—	*16*	*	*	*	*	*	*	*Gordon Castle.*
a Nairn	82	43	21, 22	30	25th	40·7	32·6	36·5	- 3·4	6	0·57	15	+ 5	2·0	—	17	*	*	*	*	*	*	Nairn.
a Aberdeen	46	44	22nd	31	23, 24	41·9	33·9	37·8	- 2·6	7	0·60	15	+ 2	2·5	- 1·5	21	*	*	*	*	39·3	-0·4	Aberdeen.
a Balmoral	930	38	21st	25	25th	36·6	29·6	33·0	- 3·2	5	0·48	12	- 4	*	*	*	6	22	*	*	*	*	Balmoral.
p Crieff	432	45	24th	25	25th	41·6	30·7	36·0	- 4·5	6	0·55	14	- 3	2·0	—	17	*	*	*	*	*	*	Balruddery.
a Leith	18	43	24th	31	24th	41·1	34·4	37·7	- 4·2	5	0·67	17	+ 9	*	*	*	*	*	*	*	*	*	
a West Linton	769	41	24th	?27	23rd	38·7	?31·3	?34·9	- 2·5	6	1·21	31	—	*2·3*	—	*19*	6	21	*	*	*	*	*West Linton.*
p Marchmont	498	41	19, 25	27	24th	39·1	30·9	34·9	- 4·4	6	0·87	22	+ 8	1·9	- 1·7	16	3	23	*	*	*	*	Marchmont.
a Edinburgh	*441*	*41*	*24th*	*27*	*25th*	*38·4*	*32·4*	*35·3*	—	*6*	*0·97*	*25*	—	1·4	—	12	3	26	*	*	*	*	Edinburgh.
6. *a*, SCOTLAND, W.																							
a Poltalloch	132	?45	25th	29	23rd	?43·9	34·4	?39·0	- 1·9	3	0·98	25	+ 5	*	*	*	*	*	*	*	*	*	
p Glasgow Observatory	180	45	24th	30	25th	41·3	34·9	38·0	- 2·7	6	1·21	31	+ 18	2·7	- 0·2	22	3	26	*	*	*	*	Glasgow.
p Rothesay	170	45	24th	29	25th	42·6	34·3	38·3	- 3·2	5	0·84	21	+ 2	*2·9*	—	*24*	4	25	39·6	*	40·7	-1·2	*Rothesay.*
a Kilmarnock	90	49	19th	23	24th	45·0	33·7	39·2	- 1·8	5	0·52	13	—	*2·9*	—	*24*	*	*	*	*	*	*	*Kilmarnock.*
a Colmonell	170	?51	19th	30	23rd	44·7	34·4	39·4	- 2·5	5	0·54	14	- 5	*	*	*	5	25	*	*	*	*	
a Dumfries	160	48	19th	23	24th	42·3	32·3	37·2	- 3·9	7	0·69	18	+ 2	*1·6*	—	*13*	4	18	38·8	*	39·8	*	*Dumfries.*
Eskdalemuir	*799*	*41*	*19, 24*	*11*	*24th*	*37·9*	*26·9*	*32·2*	—	*6*	*0·93*	*24*	—	*2·2*	—	*18*	*	*	*	*	*	*	*Eskdalemuir.*
p Cally, Gatehouse ..	120	50	19th	23	24th	44·7	30·1	37·2	- 3·7	3	0·49	12	- 10	*	*	*	*	*	*	*	*	*	
b, I. OF MAN. *p* Douglas	277	48	19th	28	23rd	43·6	33·6	38·5	- 3·3	6	0·40	10	- 6	1·9	- 1·6	16	3	21	*	*	*	*	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle ..	210	45	25th	25	24th	40·6	32·3	36·3	- 4·2	7	0·67	17	+ 3	1·1	—	9	3	21	37·0	-1·5	39·2	-0·4	Cockle Park.
a Tynemouth	71	44	25th	27	24th	40·1	34·1	37·0	- 3·9	6	0·47	12	+ 2	*	*	*	*	*	*	*	*	*	*Tynemouth.*
a Durham	336	42	24, 25	20	24th	38·9	30·0	34·3	- 5·9	7	0·56	14	+ 4	1·0	- 2·7	8	3	10	*	*	*	*	Durham.
a, North .. *p* Rounton ..	249	43	24, 25	23	24th	40·9	31·4	36·0	- 4·1	7	0·65	16	+ 5	*	*	*	4	23	38·2	*	*	*	Rounton.
a West Witton	*605*	*41*	*19, 24, 25*	*18*	*24th*	*38·7*	*30·1*	*34·3*	—	*7*	*1·30*	*33*	—	*	*	*	3	14	36·1	*	37·1	*	*West Witton.*
p Scarborough†	100	44	24, 25	29	23rd	42·0	34·0	37·9	- 3·6	3	0·52	13	+ 3	1·9	—	16	*	*	*	*	42·0	*	Scarborough.
p York	56	47	20th	31	24, 25	43·0	35·7	39·2	- 2·6	6	0·60	15	+ 6	1·6	- 1·8	13	*	*	40·5	+0·2	41·1	+0·2	York.
b, South .. *a* Spurn Head	26	45	25th	30	24th	41·7	33·6	37·5	- 3·9	5	1·28	33	+ 26	*1·7*	—	*14*	*	*	*	*	*	*	*Spurn Head.*
a Lincoln	58	51	21st	30	26, 27	44·4	34·2	39·2	- 2·6	5	0·47	12	+ 3	*	*	*	*	*	39·7	+0·2	41·0	+0·5	Lincoln.
a Fulbeck	180	51	19th	29	24, 25	41·9	33·9	37·8	- 4·0	7	0·90	23	+ 14	1·9	—	16	2	25	40·8	-0·8	41·9	-0·4	Rauceby.
														1·7	—	14	*	*	*	*	*	*	Skegness.
3. ENGLAND, E.																							
p Cromer	196	50	19th	29	24, 25	42·4	34·6	38·4	- 2·5	4	0·33	8	—	1·3	—	11	*	*	*	*	*	*	Cromer.
p Little Massingham ..	280	58	19th	26	24th	43·7	32·7	38·0	- 3·5	5	0·34	9	- 1	1·4	- 2·5	12	3	22	*	*	*	*	Lit. Massingham.
a, North .. *a* Yarmouth	13	49	19th	30	24th	42·6	35·9	39·2	- 1·5	4	0·35	9	0	2·1	—	18	*	*	41·9	+0·4	43·1	+0·1	Yarmouth.
a Norwich	93	61	19th	27	24th	45·6	35·4	40·4	- 0·9	4	0·38	10	—	*1·8*	—	*15*	3	21	41·4	*	*	*	*Norwich.*
a Geldeston	37	57	19th	29	24, 25	45·4	35·6	40·4	- 1·1	5	0·54	14	+ 5	1·7	- 2·5	14	*	*	*	*	*	*	Geldeston.
b, South .. *p* Cambridge	41	58	19th	27	24th	46·1	34·4	40·1	- 1·9	5	1·01	26	+ 18	1·5	- 2·6	13	2	27	42·5	+0·8	43·2	+0·4	Cambridge.
a Clacton-on-Sea ..	54	51	20th	32	25th	43·7	37·4	40·5	- 0·8	4	0·83	21	—	2·9	—	24	2	27	42·9	+0·8	43·8	-0·1	Clacton.
a Rothamsted	424	53	19th	25	25th	43·0	33·4	38·1	- 3·0	6	1·34	34	+ 24	1·8	- 2·1	15	3	20	40·1	*	*	*	Rothamsted.
p Tottenham	51	56	19th	31	24th	46·7	37·4	41·9	- 0·3	5	1·38	35	—	1·6	—	13	2	28	*	*	43·9	+1·0	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate	479	43	25th	24	23rd	39·9	31·3	35·5	- 4·6	6	1·13	29	+ 17	1·4	—	12	3	22	38·2	-1·2	39·3	-0·8	Harrogate.
p Buxton	*987*	*46*	*19th*	*26*	*23rd*	*39·3*	*31·7*	*35·4*	*- 3·0*	*6*	*0·92*	*23*	*0*	*1·7*	—	*14*	3	20	36·5	-1·9	38·3	-2·3	*Buxton.*
														1·7	—	14	3	25	38·3	-0·9	40·0	-0·3	Sheffield.
a Bawtry	65	47	19th	29	24th	41·7	33·7	37·6	- 4·2	5	0·91	33	+ 15	1·4	- 2·0	12	3	20	40·2	*	41·2	*	Worksop.
a Nottingham	82	50	19th	27	24, 25	42·7	33·6	38·0	- 3·6	5	0·76	19	+ 10	1·4	—	12	3	21	38·3	-1·3	39·5	-0·2	Nottingham.
b, East .. *p* Birmingham, Edgbsn.	535	51	19th	27	24th	43·0	33·6	38·2	- 3·0	5	0·75	19	+ 9	1·1	—	9	3	15	39·6	-0·7	42·3	-0·4	Birmingham.
a Raunds	203	55	19th	21	24th	43·7	32·3	37·8	- 3·3	6	0·89	23	—	*1·4*	—	*12*	3	19	42·2	*	43·0	*	*Raunds.*
p Oxford	208	55	19th	28	24th	45·0	34·4	39·5	- 2·8	5	1·49	38	+ 30	1·9	- 2·0	16	3	19	*	*	*	*	Oxford.
c, West .. *a* Cheadle	646	50	19th	28	23–25	41·9	33·1	37·4	- 2·8	5	0·51	13	0	*	*	*	3	23	*	*	*	*	Cheadle.
p Shrewsbury	191	50	19th	29	24th	46·0	33·9	39·8	- 2·8	5	1·38	35	—	*	*	*	4	25	*	*	*	*	Shrewsbury.
a Hereford§	291	49	25th	27	24th	43·9	34·9	39·3	- 3·1	6	1·77	45	+ 35	*1·7*	—	*14*	3	20	40·2	*	41·0	*	*Malvern.*§
a Bath	66	52	19th	27	24th	46·0	35·6	40·7	- 1·8	4	1·54	39	+ 27	2·1	—	18	*	*	42·8	-0·2	43·7	-0·2	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	54	19th	25	24th	45·4	34·0	39·5	- 0·9	5	1·19	30	+ 17	2·1	—	18	2	22	43·9	+1·5	44·4	+0·7	Worthing.
a Margate	53	58	20th	31	25th	46·6	38·6	42·5	+ 0·5	5	0·20	5	- 3	2·2	- 1·4	18	3	18	42·6	*	43·7	*	Marlborough.
a Wisley, Surrey ..	150	58	19th	29	24th	45·4	35·4	40·3	- 2·6	5	0·90	23	—	2·3	- 1·8	19	1	27	44·2	+2·6	44·0	+1·8	Margate.
p Salisbury (Wilton) ..	180	53	19th	27	24th	46·6	33·9	40·1	- 2·4	5	1·71	43	+ 31	2·1	—	18	4	20	42·0	+0·5	42·5	-0·3	Wisley.
a Tunbridge Wells ..	354	58	19, 20	28	25th	46·4	37·0	41·6	- 0·2	7	1·32	34	+ 22	*	*	*	3	23	43·1	*	*	*	Salisbury.
														1·4	- 2·7	12	1	20	43·0	+2·2	43·2	*	Tunbridge Wells.
a Dungeness	21	53	20th	28	24th	45·6	38·3	41·8	- 0·1	6	1·31	33	+ 24	*	*	*	*	*	*	*	*	*	Littlestone.
p Hastings..	178	55	19, 20	31	25th	46·9	38·3	42·5	- 0·2	7	1·00	25	+ 13	1·5	—	13	2	25	43·8	*	43·5	*	Hastings.
p Southampton	64	51	19, 20	27	24th	45·6	36·0	40·7	- 3·7	5	1·46	37	+ 25	1·9	- 2·4	16	3	18	*	*	*	*	Southampton.
a Ventnor	59	53	20th	30	24th	46·0	38·4	42·1	- 2·1	6	1·39	35	+ 24	2·5	- 2·2	21	*	*	*	*	*	*	Ventnor.
LONDON. *p* Kew	18	56	19th	30	24, 25	46·0	35·1	40·4	- 2·1	5	1·06	27	+ 18	1·8	- 1·8	15	2	24	42·3	+0·7	43·3	0·0	Kew.
a Westminster	*27*	*57*	*19th*	*30*	*25th*	*47·1*	*37·6*	*42·3*	*- 0·6*	*7*	*1·20*	*31*	*+ 21*	*1·5*	*- 0·9*	*13*	1	27	*	*	*	*	*Westminster.*
a Greenwich	*155*	*57*	*19th*	*31*	*25th*	*46·1*	*36·7*	*41·3*	*- 2·1*	*6*	*1·17*	*30*	*+ 21*	*1·5*	*- 1·9*	*13*	3	26	*	*	*	*	*Greenwich.*
a Hampstead	*450*	*54*	*19th*	*27*	*24th*	*44·0*	*33·6*	*38 7*	—	*6*	*1·35*	*34*	—	*2·0*	—	*17*	4	19	*	*	*	*	*Hampstead.*
a Camden Square ..	*110*	*57*	*19th*	*30*	*24, 25*	*47·1*	*36·6*	*41·7*	—	*5*	*1·31*	*33*	—	*1·7*	—	*14*	2	26	*	*	*	*	*Camden Square.*
7. *a*, ENGLAND, N.W.														2·1	—	18	*	*	*	*	*	*	Hoylake.
p Aspatria	250	48	19th	19	24th	41·1	30·3	35·5	- 4·9	4	0·76	19	+ 2	1·6	—	13	4	19	39·7	*	41·7	*	Aspatria.
p Newton Rigg	559	48	19th	8	24th	40·4	27·1	33·6	- 5·9	5	1·13	29	+ 15	0·7	- 2·0	6	4	2	39·4	-0·6	39·7	-0·4	Newton Rigg.
p Stonyhurst	375	48	19th	24	23rd	41·9	33·1	37·4	- 3·2	4	0·48	12	- 8	1·0	- 2·6	8	3	17	*	*	*	*	Stonyhurst.
p Blackpool	66	51	19th	25	23rd	43·9	35·0	39·3	- 2·3	6	1·24	31	+ 18	1·6	- 2·1	13	3	11	40·7	*	43·0	*	Blackpool.
a Southport	*37*	*51*	*19th*	*26*	*23rd*	*42·7*	*35·3*	*38·9*	*- 2·8*	*5*	*1·12*	*28*	*+ 16*	*1·8*	—	*15*	2	17	39·3	-1·8	40·6	-1·0	*Southport.*
a Liverpool (Bidston) ..	188	50	19th	29	23rd	42·6	34 7	38·5	- 4·6	5	0 67	17	+ 6	*1·9*	—	*16*	*	*	*	*	*	*	*Liverpool.*
a Hawarden Bridge ..	22	52	19th	29	23rd	43·7	35·9	39·7	- 3·2	5	0·48	12	+ 3	*0·2*	—	*2*	3	27	38·5	-1·2	41·2	-0·7	*Manchester (City)*
p Manchester (Whit. Pk.)	125	49	19th	30	23rd	43·0	35·0	38·9	- 3·1	4	0·59	15	+ 3	*0·5*	*- 1·9*	*4*	*	*	*	*	*	*	" (*Whit. Park*)
b NORTH WALES.																							
p Llandudno	71	49	19th	26	23rd	43·6	35·4	39·4	- 3·6	5	1·08	28	+ 16	2·0	- 1·8	17	*	*	*	*	*	*	Llandudno.
Holyhead	15	48	19th	30	23rd	43·9	36·6	40·1	- 2·8	6	0 83	21	+ 7	*1·6*	—	*13*	*	*	*	*	*	*	*Holyhead.*
p Bettws-y-Coed ..	148	50	19, 20	26	23rd	44·1	33·1	38·4	- 4·5	7	1·30	33	—	1·0	—	8	*	*	40·3	-1·6	42·9	+0·1	Bettws-y-Coed.
														1·8	—	15	*	*	*	*	*	*	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.		Deviation from Normal.	Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														1·7	—	14	*	*	*	*	*	*	
a Llangammarch Wells	550	49	19th	23	24th	42·9	34·0	38·3	− 2·3	5	1·52	39	—	1·6	—	13	3	15	40·4	−0·6	42·7	−0·3	Aberystwyth.
a Pembroke	149	55	20th	29	24th	45·3	37·3	41·2	− 1·7	7	1·08	27	+ 15	2·9	− 1·5	24	*	*	*	*	*	*	Llangammarch.
p Cardiff	202	51	20th	28	24th	45·3	35·3	40·2	− 3·1	5	1·63	41	+ 24	*2·6*	—	*22*	3	23	42·2	+1·2	42·9	+0·4	Pembroke.
b, ENGLAND, S.W.																							*Cardiff.*
a Clifton	229	51	19th	28	24th	45·1	36·6	40·7	− 2·0	4	1·81	46	+ 33	*2·1*	—	*18*	2	25	*	*	*	*	
a Shaftesbury	722	53	20th	28	24th	44·9	35·0	39·8	− 1·3	5	1·08	28	+ 15	*	*	*	*	*	41·6	*	42·2	*	*Clifton.*
a Arlington	613	56	20th	28	24th	45·0	35·4	40·1	− 1·3	7	1·16	30	+ 9	*	*	*	*	*	*	*	*	*	Shaftesbury.
a Newquay	*190*	*54*	*19, 20*	*33*	*24th*	*46·3*	*39·1*	*42·6*	− *1·9*	*7*	*0·75*	*19*	+ *6*	2·9	− 1·6	24	*	*	45·4	*	44·9	*	Arlington.
a Cullompton	202	56	20th	27	24th	46·4	35·9	41·0	− 2·0	6	0·94	24	+ 10	2·2	− 1·9	18	2	20	43·7	*	*	*	Newquay.
a Portland Bill	19	52	20th	33	23–25	44·9	37·4	41·0	− 2·4	5	0·71	18	—	*2·2*	—	*18*	*	*	*	*	*	*	Cullompton.
p Plymouth	116	56	20th	29	24th	48·1	37·9	42·9	− 1·2	5	0·33	8	− 7	2·8	− 1·6	23	*	*	44·5	+0·3	44·8	*	*Weymouth.*
a Falmouth	167	55	20th	30	24, 25	47·3	37·9	42·5	− 1·9	5	0·94	24	+ 6	3·7	− 0·9	31	2	21	46·4	*	45·9	*	Plymouth.
9. IRELAND, N.																							Falmouth.
a, West .. *a* Malin Head	208	48	20th	33	23rd	42·7	36·4	39·5	− 2·4	5	1·06	27	+ 14	*3·7*	—	*31*	*	*	*	*	*	*	
a Blacksod Point ..	?	48	20th	31	24th	43·3	36·3	39·7	− 4·1	6	0·91	23	+ 2	*	*	*	*	*	*	*	*	*	*Malin Head.*
p Markree Castle ..	122	53	19th	33	24th	46·6	32·1	39·1	− 2·7	6	0·99	25	+ 7	2·6	− 1·0	22	4	21	41·9	*	42·8	*	Markree Castle.
a Birr Castle	175	47	19–21, 24	25	23, 24	45·6	33·3	39·3	− 2·5	6	0·80	20	+ 7	*2·2*	− *1·6*	*18*	*	*	*	*	*	*	*Birr Castle.*
b, East .. *p* Armagh	196	49	24th	26	24th	44·7	33·1	38·7	− 3·2	4	0·41	10	− 3	1·9	− 1·6	16	3	19	40·9	−1·4	42·0	−1·3	
a Donaghadee	101	46	19th	33	23, 25	43·3	37·0	40·1	− 2·4	3	0·47	12	0	*	*	*	*	*	*	*	*	*	Armagh.
10. IRELAND, S.														*	*	*	*	*	*	*	*	*	
p Dublin, City	47	46	19, 25	30	24th	44·0	35·9	39·8	− 4·1	7	1·24	31	+ 20	2·4	− 1·8	20	3	23	41·9	−1·3	43·8	−0·9	
a, East .. *a* Kilkenny	212	55	20th	26	24th	46·7	35·7	41·0	− 1·7	6	0·45	11	− 1	*	*	*	3	26	*	*	*	*	Trinity Coll.
a Waterford	20	57	20th	29	24th	47·0	36·6	41·7	− 1·7	5	0·65	17	+ 2	*	*	*	*	*	*	*	*	*	Phœnix Park.
a Seskin, Carrick-on-Suir	*541*	*55*	*20th*	*26*	*24th*	*46·0*	*33·7*	*39·7*	—	*5*	*1·04*	*26*	—	*2·5*	—	*21*	*	*	*	*	*	*	Dublin City.
a Birr Castle	175	47	19–21, 24	25	23, 24	45·6	33·3	39·3	− 2·5	6	0·80	20	+ 7	2·2	− 1·6	18	3	24	*	*	*	*	
a Foynes	50	54	20th	30	23, 24	46·9	37·0	41·8	− 2·1	6	0·81	21	+ 6	*	*	*	*	*	*	*	*	*	*Seskin.*
b, West .. *a* Cahir	199	54	20th	29	24th	46·4	35·4	40·7	− 2·3	6	0·99	25	—	*	*	*	*	*	*	*	*	*	
a Killarney	174	56	20th	28	24th	48·5	37·2	42·7	− 1·8	6	0·73	19	− 6	*	*	*	*	*	*	*	*	*	Birr Castle.
a Valencia	30	53	20th	32	23, 24	47·1	38·4	42·6	− 2·5	5	0·59	15	− 10	3·2	− 1·0	27	*	*	*	*	*	*	
a Roche's Point	32	52	20th	32	24th	46·7	38·6	42·5	− 2·0	6	0·96	24	+ 8	2·9	—	24	*	*	*	*	*	*	Valencia.
11. ENGLISH CHANNEL.																							Ballinacurra.
a Scilly, St. Mary's ..	131	54	19th	34	24th	48·4	40·7	44·4	− 1·5	5	0·41	10	− 3	4·9	+ 0·2	41	*	*	*	*	*	*	
a Jersey, St. Aubins ..	25	53	20th	34	25th	47·7	40·1	43·8	− 1·3	6	0·55	14	+ 1	1·9	− 3·1	16	*	*	*	*	*	*	Scilly.
a Guernsey (Villa Carey)	180	53	20th	35	24th	46·9	40·9	43·8	− 1·4	5	0·63	16	+ 2	2·4	− 2·5	20	1	29	45·7	+0·6	45·3	−0·3	St. Helier's.
																							Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, March 25th, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Height. Above Ground.	Height. Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Gales, force 8 or more. Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	High Winds, forces 6 and 7. Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.	Date and Hour.	Highest Gust with Date and Time.
1. SCOTLAND, E.	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.			m/s. d. h. m.
Dyce	305	75	115**	—	—	—	—	4	128	36	0	S. by W. 7	25th 11h.	16 25th 11 . 27
Aberdeen*	153	105 { 37 / 52 } †		—	—	—	—	67	77	18	6	NW. by W. 9	23rd 11h	16 25th 11 . 21
Edinburgh	485	39	31	—	—	25th	4	68	82	6	8	S. by W. 16	25th 10h.	25 25th 9 . 30
6. SCOTLAND, W.														
Eskdalemuir	850	50	22	25th	2	19 to 21, 25	33	78	25	30	0	S. by W. 18	25th 15h.	28 25th 14 . 46
Paisley	188	81	52	—	—	25th	3	55	103	7	0	WSW. 12	25th 22h.	27 25th 22 . 15
2. ENGLAND, N.E.														
Alnwick Castle	340	70	17	—	—	—	—	7	108	53	0	SSW. 10	25th 14h.	17 25th 15 . 5
South Shields	72	61	12	—	—	25th	3	59	74	32	0	SSW. 12	25th 16h.	21 25th 14 . 35
Spurn Head	66	40	‡	—	—	25th	7	102	42	8	9	W. by S. 14	25th 19h.	22 25th 19 . 25
3. ENGLAND, E.														
Gorleston	52	42	‡‡	—	—	22, 25	20	68	47	17	16	— 14	25th 24h.	19 25th 23 . 16
Shoeburyness	103	90	‡	—	—	21, 22, 25	24	59	73	12	0	— 16	25th 24h.	22 25th 23 . 52
4. MIDLAND COUNTIES.														
Benson	270	84	‡	—	—	25th	10	52	58	48	0	SSW. 13	25th 17h.	21 25th 17 . 50
5. ENGLAND, S.E.														
Dover	271	40	‡	—	—	22, 25	24	30	24	8	82	— 16	25th 23h.	23 25th 22 . 48
Warlingham	642	33	‡‡	—	—	25th	4	13	72	67	12	— 11	25th 21h.	21 25th 20 . 57
Brighton	281	53	6	—	—	25th	4	43	52	18	51	— 13	25th 24h.	22 25th 24 . 29
Kew Observatory ..	82	65 { 6 / 22 } †		—	—	25th	7	36	91	34	0	SW. by S. 12	25th 19h.	22 25th 22 . 48
South Kensington ..	123	92	30	—	—	—	—	9	85	74	0	SW. by S. 8	25th 21h.	17 25th 17 . 56
7. ENGLAND, N.W.														
Carnforth	246	56	23	—	—	—	—	34	92	42	0	SSW. 9	25th 24h.	18 25th 16 . 45
Southport	80	62	48	25th	1	19 to 21, 25	18	109	38	2	0	WSW. 19	25th 24h.	28 25th 16 . 58
Holyhead*	60	40	‡	—	—	19 to 22, 25	89	55	23	1	0	WSW. 17	25th 24h.	25 25th 15 . 34
8. ENGLAND, S.W.														
Pendennis Castle§ ..	256	65	24	25th	5	19, 25	20	67	66	10	0	SW. 19	25th 15h.	25 25th 15 . 20
Plymouth	185	88	2	—	—	19, 25	10	36	101	21	0	— 13	25th 17h.	19 25th 16 . 52
10. IRELAND, S.														
Quilty	100	40	‡	—	—	19, 25	7	106	44	2	9	— 17	25th 23h.	27 25th 22 . 43
Weaver Pt.	160	30	‡	—	—	20, 25	11	105	48	4	0	— 12	25th 14h.	21 25th 14 . 25
11. ENGLISH CHANNEL.														
Scilly*	150	{ 32 / 19 }	‡	—	—	19, 25	13	73	78	4	0	WNW. 14	25th 24h.	25 25th 20 . 25

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.
† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew), and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

TWELFTH WEEK—March 19th to March 25th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration	
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	48	27	78·1	73·9	75·9	− 1·5	0	− 14	33	+ 5	6	0	0·88	22	− 4	2·6	−0·7	22	1005
Eastern.																			
1. SCOTLAND, EAST ...	45	25	77·5	73·0	75·2	− 2·4	0	− 20	42	+ 11	6	+ 2	0·72	18	+ 5	1·9	−2·0	16	1005
2. ENGLAND, N.E.	51	20	78·3	73·7	75·9	− 2·3	0	− 22	34	+ 9	6	+ 2	0·68	17	+ 8	1·5	−2·8	13	1003
3. ENGLAND, EAST ...	61	25	79·9	74·8	77·3	− 1·1	7	− 21	25	− 2	5	+ 1	0·72	18	+ 9	1·8	−2·5	15	1002
4. MIDLAND COUNTIES ...	55	21	79·3	73·9	76·6	− 1·8	4	− 24	30	+ 3	5	+ 2	1·11	28	+ 19	1·4	−2·5	11	1002
5. ENGLAND, S.E.	58	25	80·8	75·5	78·1	− 1·0	11	− 17	21	+ 1	6	+ 3	1·15	29	+ 19	2·0	−2·3	17	1001
Western.																			
6. SCOTLAND, WEST ...	51	23	79·4	73·8	76·5	− 1·8	4	− 16	29	+ 7	5	0	0·71	18	− 2	2·3	−1·6	19	1004
7. ENGLAND, N.W.	52	8	79·0	73·9	76·4	− 2·1	2	− 19	29	+ 9	5	+ 2	0·86	22	+ 9	1·5	−2·4	12	1002
8. ENGLAND, S.W.	56	23	80·5	75·4	77·9	− 1·4	10	− 17	21	+ 5	5	+ 2	1·12	29	+ 14	2·5	−1·9	21	1001
9. IRELAND, NORTH ...	53	23	79·9	74·5	77·1	− 1·7	7	− 16	26	+ 7	5	+ 1	0·77	20	+ 4	2·3	−1·4	19	1004
10. IRELAND, SOUTH ...	57	25	81·1	75·5	78·2	− 1·4	13	− 17	21	+ 6	6	+ 2	0·80	20	+ 3	2·7	−1·5	22	1003
11. ENGLISH CHANNEL ...	54	34	81·7	77·8	79·7	− 0·9	20	− 12	4	− 2	5	+ 1	0·53	13	+ 1	3·1	−2·1	26	1001

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 4 Weeks, February 27th to March 25th, 1916.

0. SCOTLAND, NORTH ...	53	22	77·7	73·2	75·4	− 1·4	2	− 34	161	+ 31	19	− 2	1·62	40	− 62	2·3	−0·5	21	1011
Eastern.																			
1. SCOTLAND, EAST ...	51	18	76·8	72·5	74·6	− 2·1	0	− 52	201	+ 57	23	+ 7	3·28	83	+ 30	1·7	−1·6	15	1010
2. ENGLAND, N.E.	52	20	77·7	73·7	75·6	− 1·9	0	− 65	150	+ 34	26	+11	3·72	94	+ 54	1·6	−2·1	14	1006
3. ENGLAND, EAST ...	61	24	78·9	74·1	76·5	− 1·1	18	− 64	130	+ 4	23	+ 8	2·75	69	+ 34	1·5	−2·2	13	1003
4. MIDLAND COUNTIES ...	59	21	78·2	73·3	75·7	− 1·9	12	− 72	161	+ 36	21	+ 8	3·82	98	+ 58	1·3	−2·0	11	1004
5. ENGLAND, S.E.	58	18	79·7	74·5	77·1	− 1·2	39	− 47	115	+ 18	21	+ 8	3·56	90	+ 47	1·9	−1·7	17	1002
Western.																			
6. SCOTLAND, WEST ...	57	17	78·6	73·2	75·8	− 1·8	11	− 45	150	+ 44	14	− 3	1·45	37	− 45	2·1	−1·1	19	1009
7. ENGLAND, N.W.	56	8	78·4	73·7	76·0	− 1·8	10	− 53	142	+ 45	18	+ 4	2·31	59	+ 5	1·9	−1·4	17	1005
8. ENGLAND, S.W.	59	17	79·3	73·8	76·5	− 2·1	36	− 52	136	+ 56	18	+ 4	2·85	73	+ 9	2·9	−0·8	25	1002
9. IRELAND, NORTH ...	53	18	79·0	73·8	76·3	− 1·9	16	− 60	132	+ 43	17	− 1	1·62	42	− 20	2·3	−0·8	21	1008
10. IRELAND, SOUTH ...	58	20	79·7	74·3	76·9	− 2·2	33	− 68	114	+ 45	21	+ 5	2·05	51	− 19	2·6	−1·0	23	1006
11. ENGLISH CHANNEL ...	59	30	80·9	76·5	78·6	− 1·5	55	− 54	51	+ 20	22	+ 6	3·86	97	+ 43	3·2	−1·3	28	1001

THE YEAR.—Aggregates, &c., for the Period of 12 Weeks, January 2nd to March 25th, 1916.

0. SCOTLAND, NORTH ...	53	22	79·3	74·4	76·9	+ 0·4	104	+ 14	339	− 85	66	+ 4	17·10	433	+ 76	1·8	0·0	20	1007
Eastern.																			
1. SCOTLAND, EAST ...	57	7	79·0	73·7	76·4	+ 0·2	96	− 17	445	− 35	59	+12	9·56	244	+ 78	2·0	−0·3	22	1008
2. ENGLAND, N.E.	60	20	80·1	75·0	77·5	+ 0·7	160	+ 25	302	− 82	54	+10	6·74	172	+ 54	2·0	−0·5	21	1010
3. ENGLAND EAST ...	61	24	80·5	75·2	77·9	+ 1·1	187	+ 28	282	−146	56	+12	7·27	183	+ 72	1·9	−0·7	19	1011
4. MIDLAND COUNTIES ...	59	21	80·4	74·8	77·6	+ 0·7	184	+ 10	320	−105	53	+11	8·22	210	+ 74	1·7	−0·6	18	1011
5. ENGLAND, S.E.	58	15	81·1	75·8	78·5	+ 0·9	239	+ 50	234	− 93	57	+16	8·70	221	+ 77	2·1	−0·5	21	1012
Western.																			
6. SCOTLAND, WEST ...	57	17	80·0	74·9	77·5	+ 0·2	139	+ 3	287	− 51	59	+ 6	10·31	262	− 24	1·9	−0·2	21	1010
7. ENGLAND N.W.	58	8	80·5	75·7	78·1	+ 0·7	177	+ 31	249	− 70	57	+10	8·75	222	+ 38	1·8	−0·4	19	1011
8. ENGLAND, S.W.	59	17	80·9	76·2	78·6	+ 0·3	230	+ 8	222	− 33	59	+12	10·86	279	+ 55	2·1	−0·5	22	1012
9. IRELAND NORTH ...	56	18	80·9	75·3	78·1	+ 0·2	188	+ 2	254	− 27	61	+ 6	8·06	206	− 7	2·2	0·0	23	1010
10. IRELAND, SOUTH ...	59	20	81·6	76·2	78·9	0·0	254	− 12	193	− 22	69	+19	9·24	233	− 10	2·2	−0·4	23	1013
11. ENGLISH CHANNEL ...	59	30	82 1	78·3	80·2	+ 0·3	327	+ 22	72	− 29	65	+12	10·82	273	+ 84	2·5	−0·7	25	1013
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	m.m.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., March 30th, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 13. SUNDAY, MARCH 26TH, TO SATURDAY, APRIL 1ST, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE THIRTEENTH WEEK OF 1916.

There was sharp contrast between the weather conditions at the beginning and end of the week, particularly in the south of the country. The first part was marked by considerable precipitation falling in the form of rain and snow accompanied by a low temperature. This gave place in the last four days to a milder rainless type of weather. The increase of temperature was not, however, sufficient to balance the cold in the earlier part of the week and mean temperature was below the normal in all districts, generally by from 1° to 2° A. (2° to 3°·5 F.). The highest maximum occurred at all stations on Friday or Saturday, when 288°·6 A. (60° F.) was touched in many districts and an extreme of 291°·3 A. (65° F.) was reached at Aberdeen. The dates of occurrence of the lowest minima were more variable and the values ranged down to 266°·3 A. (20° F.) in Scotland and 269°·1 A. (25° F.) at inland stations in the south. Rainfall was variable, being largely in excess of the average in the south but deficient in most other districts, notably in Ireland and in Scotland West and England North-West. Heavy falls were experienced in the south of the country during the unsettled weather of the earlier part of the week, the largest daily falls reported being 40 mm. at Salcombe and Newquay, 41 mm. at Bath and Scilly, and 45 mm. at Falmouth. Scotland North and the English Channel showed decided deficiencies of bright sunshine but over the country generally the departures from the normal were not great. Aurora was observed from Benson on Wednesday night and a sun pillar was seen at Oxford on the same evening. Sea temperature off the east coast of England did not depart much from the normal but in the west and north there was a defect of about 1° A. (2° F.).

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		ENGLAND, E.		NORTH WALES.		ENGLAND, S.W.		IRELAND, S.	
	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.
		m/s		m/s		m/s		m/s		m/s
South	4	5·6	4	2·8	5	3·8	¼	0·6	4	3·6
North	3	9·8	2	4·5	2	6·4	5	4·8	2	2·9
West	6	5·6	5	3·6	6	5·9	5	8·2	4	5·1
East	1	6·2	2	6·0	1	10·1	2	4·1	3	1·9
Calm	0	—	0	—	0	—	¼	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH AVERAGE.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. [See below, Note (1).

	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year ... Warmth ...	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient
Rainfall ...	Heavy	Moderate	Moderate	Very heavy	Heavy	Heavy	Light	Light	Heavy	Light	Light	Heavy
Sunshine ...	Scanty	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Scanty

II.—THE SPRING SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SPRING. 5 weeks from Feb. 27th, 1916. Warmth ...	0, 2, 3	0, 0, 5	0, 1, 4	0, 3, 2	0, 2, 3	0, 2, 3	0, 1, 4	0, 1, 4	0, 1, 4	0, 1, 4	0, 1, 4	0, 1, 4
Rainfall ...	1, 1, 3	3, 2, 0	4, 1, 0	5, 0, 0	5, 0, 0	4, 1, 0	0, 2, 3	1, 2, 2	2, 2, 1	0, 3, 2	0, 2, 3	3, 2, 0
Sunshine ...	0, 3, 2	0, 2, 3	0, 2, 3	0, 1, 4	0, 1, 4	0, 1, 4	0, 3, 2	0, 3, 2	0, 3, 2	0, 3, 2	0, 3, 2	0, 1, 4

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1° A. = increment of $\frac{9}{5}$° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(7800—19.) Wt. 79a—736. 450. 4/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.																							
p Baltasound	*31*													*	*	*	*	*	*	*	*	*	*Baltasound.*
a Lerwick	54	47	1st	26	29th	42·1	32·0	36·9	− 2·5	7	1·93	49	—	2·6	− 1·4	21	*	*	*	*	*	*	Deerness.
a Stornoway	51	51	1st	26	29th	43·7	33·7	38·6	− 2·2	7	1·19	30	+ 9	1·8	− 2·3	14	*	*	*	*	*	*	Stornoway.
a Castlebay, Barra Isd.	*37*	*49*	*31st*	*29*	*26, 27*	*43·9*	*35·6*	*39·6*	*− 2·6*	*4*	*0·36*	*9*	—	*1·4*	—	*11*	*	*	*	*	*	*	*Castlebay.*
a Wick	81	53	1st	30	26, 28-30	43·9	33·9	38·8	− 1·9	5	0·60	15	+ 3	*	*	*	*	*	*	*	*	*	
p Strathpeffer	200	53	1st	26	27, 29	44·6	32·7	38·5	− 2·1	4	0·40	10	− 3	2·1	− 1·4	17	*	*	*	*	*	*	Strathpeffer.
p Glencarron	500	48	1st	20	29th	40·7	31·3	35·9	− 3·7	5	2·60	66	+ 26	*	*	*	*	*	*	*	*	*	
p Fort Augustus	68	52	1st	23	29th	44·1	33·6	38·7	− 1·9	5	0·93	24	+ 6	2·5	− 0·5	20	*	*	*	*	*	*	Fort Augustus.
p Fort William	171	52	1st	24	29th	44·9	34·0	39·3	− 2·5	4	1·34	34	0	*	*	*	*	*	*	*	*	*	
1. SCOTLAND, E.														4·9	—	39	4	22	37·6	−2·3	38·4	−1·1	Crathes.
p Gordon Castle	101	54	31st	25	29th	43·9	34·0	38·8	− 2·9	3	0·45	11	− 1	*3·1*	—	*25*	*	*	*	*	*	*	*Gordon Castle.*
a Nairn	82	53	31, 1	27	29th	44·3	33·1	38·5	− 2·4	2	0·44	11	+ 1	2·1	—	17	*	*	*	*	*	*	Nairn.
a Aberdeen	46	65	1st	27	26th	47·6	33·9	40·6	− 0·7	3	0·24	6	− 7	4·6	+ 0·3	37	*	*	*	*	39·5	−0·8	Aberdeen.
a Balmoral	930	52	1st	22	26th	40·7	30·4	35·4	− 2·0	3	0·22	6	− 9	*	*	*	4	14	*	*	*	*	Balmoral.
p Crieff	432	57	1st	25	26, 29	45·7	31·1	38·2	− 3·6	3	0·16	4	− 12	5·8	—	46	*	*	*	*	*	*	Balruddery.
a Leith	18	57	1st	29	26th	46·7	34·3	40·3	− 2·2	1	0·31	8	0	*	*	*	*	*	*	*	*	*	
a West Linton	769	55	1st	21	29th	43·7	29·7	36·5	− 1·7	2	0·30	8	—	*5·6*	—	*44*	4	16	*	*	*	*	*West Linton.*
p Marchmont	498	60	1st	27	27, 29	47·1	32·1	39·4	− 0·8	1	0·11	3	− 11	5·3	+ 1·4	42	5	24	*	*	*	*	Marchmont.
a Edinburgh	*441*	*56*	*1st*	*27*	*26th*	*45·6*	*34·0*	*39·6*	—	*1*	*0·18*	*5*	—	5·8	—	46	4	24	*	*	*	*	Edinburgh.
6. *a*, SCOTLAND, W.																							
a Poltalloch	132	54	1st	25	29th	47·0	33·9	40·3	− 1·6	2	0·35	9	− 9	*	*	*	*	*	*	*	*	*	
p Glasgow Observatory	180	53	1st	28	26, 29	45·1	35·1	40·0	− 1·7	3	0·20	5	− 8	4·4	+ 1·2	35	4	20	*	*	*	*	Glasgow.
p Rothesay	170	54	1st	29	26, 29	45·4	34·9	40·0	− 2·5	3	0·31	8	− 10	*4·9*	—	*39*	4	23	39·0	*	41·0	−1·2	*Rothesay.*
a Kilmarnock	90	54	1st	23	27, 29	47·4	32·6	39·8	− 2·3	3	0·39	10	—	*4·9*	—	*39*	*	*	*	*	*	*	*Kilmarnock.*
a Colmonell	170	57	31, 1	28	29th	48·1	35·9	41·8	− 0·8	2	0·23	6	− 12	*	*	*	4	23	*	*	*	*	
a Dumfries	160	53	31, 1	27	29th	46·0	35·7	40·7	− 1·7	3	0·07	2	− 13	*6·4*	—	*51*	4	17	37·8	*	39·9	*	*Dumfries.*
Eskdalemuir	*799*	*53*	*1st*	*23*	*29th*	*43·3*	*29·0*	*35·9*	—	*5*	*0·26*	*7*	—	*6·1*	—	*48*	*	*	*	*	*	*	*Eskdalemuir.*
p Cally, Gatehouse	120	53	1st	24	29th	47·7	31·7	39·5	− 2·6	3	0·15	4	− 16	*	*	*	*	*	*	*	*	*	
b, I. OF MAN. *p* Douglas	277	52	31st	32	26, 29	46·3	36·6	41·3	− 1·3	2	0·04	1	− 15	5·2	+ 0·3	41	2	23	*	*	*	*	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	59	1st	29	26th	48·0	34·7	41·2	0·0	1	0·13	3	− 10	6·0	—	48	5	23	37·0	−2·8	38·8	−1·5	Cockle Park.
a Tynemouth	71	58	1st	30	29th	48·0	34·6	41·1	− 0·7	1	0·04	1	− 9	*	*	*	*	*	*	*	*	*	*Tynemouth.*
p Durham	336	60	1st	27	26th	48·0	33·3	40·4	− 0·8	2	0·02	1	− 8	6·6	+ 2·7	52	5	23	*	*	*	*	Durham.
a, North *p* Rounton	249	59	1st	28	26, 29	48·3	32·7	40·3	− 0·7	3	0·10	3	− 8	*	*	*	7	23	38·3	*	*	*	Rounton.
a West Witton	*605*	*56*	*1st*	*28*	*26th*	*45·6*	*34·7*	*40·0*	—	*4*	*0·40*	*10*	—	*	*	*	5	21	36·3	*	37·1	*	*West Witton.*
p Scarborough†	100	60	1st	32	26, 29	51·4	35·4	43·2	+0·9	1	0·26	7	− 3	5·7	—	45	*	*	*	*	42·0	*	Scarborough.
p York	56	60	1st	29	29th	50·0	34·3	41·9	− 0·9	1	0·05	1	− 9	4·7	+ 1·0	37	*	*	40·1	−1·4	41·6	+0·1	York.
a Spurn Head	26	53	31, 1	31	26, 29	46·4	36·1	41·1	− 1·2	3	0·63	16	+ 9	*4·1*	—	*33*	*	*	*	*	*	*	*Spurn Head.*
b, South *a* Lincoln	58	60	1st	29	29th	48·8	33·9	41·1	− 1·7	2	0·98	25	+ 16	*	*	*	*	*	38·2	−3·0	41·0	−0·3	Lincoln.
a Fulbeck	180	59	1st	26	29th	47·9	32·7	40·1	− 2·7	4	0·98	25	+ 16	6·1	—	48	?4	?27	39·4	−3·4	42·0	−0·7	Rauceby.
														5·2	—	41	*	*	*	*	*	*	Skegness.
p Cromer	196	57	31st	30	26, 29	48·6	33·6	40·9	− 0·9	3	0·91	23	—	5·7	—	45	*	*	*	*	*	*	Cromer.
p Little Massingham	280	59	1st	29	29th	47·7	32·6	39·9	− 2·7	2	1·33	34	+ 24	5·0	—	40	5	25	*	*	*	*	Lit. Massingham.
a, North *a* Yarmouth	13	56	31st	29	30th	48·9	33·0	40·7	− 1·0	4	1·38	35	+ 26	6·1	—	48	*	*	41·3	−1·7	43·9	0·0	Yarmouth.
a Norwich	93	60	1st	30	29th	50·6	33·3	41·7	− 0·6	3	1·28	33	—	*6·0*	—	*48*	6	25	39·3	*	*	*	*Norwich.*
a Geldeston	37	57	31, 1	30	29th	50·4	34·1	42·0	− 0·5	5	1·09	28	+ 19	5·7	+ 1·1	45	*	*	*	*	*	*	Geldeston.
p Cambridge	41	58	31st	28	29th	50·1	32·9	41·3	− 1·9	3	1·12	28	+ 20	5·1	+ 0·6	40	4	29	41·1	−2·0	43·2	−0·3	Cambridge.
a Clacton-on-Sea	54	54	1st	29	29, 30	47·6	34·1	40·7	− 1·7	2	0·94	24	—	4·7	—	38	4	24	41·3	−1·9	43·9	−0·5	Clacton.
b, South *a* Rothamsted	424	54	1st	26	29th	46·6	32·3	39·2	− 3·2	3	0·99	25	+ 15	4·9	+ 0·7	40	4	21	38·2	*	*	*	Rothamsted.
p Tottenham	51	57	1st	30	29th	48·3	35·0	41·5	− 2·0	3	1·38	35	—	4·2	—	34	4	24	*	*	43·7	+0·3	Tottenham.
4. MIDLAND COUNTIES.																							
a North *a* Harrogate	479	58	1st	28	26, 29	47·6	33·6	40·4	− 0·9	2	0·19	5	− 7	5·2	—	41	3	26	38·3	−2·1	39·7	−1·1	Harrogate.
p Buxton	*987*	*55*	*1st*	*25*	*29th*	*44·4*	*32·7*	*38·4*	*− 1·2*	*3*	*0·15*	*4*	*− 17*	*5·5*	—	*28*	6	19	36·3	−3·5	38·7	−1·9	*Buxton.*
														4·6	—	37	3	26	38·5	−2·0	40·2	−0·5	Sheffield.
a Bawtry	65	60	1st	30	29th	49·0	33·7	41·1	− 1·7	3	0·18	5	− 3	4·6	+ 0·9	37	5	21	39·8	*	41·2	*	Worksop.
a Nottingham	82	60	1st	29	29th	49·0	32·7	40·6	− 2·1	3	0·52	13	+ 4	5·0	—	40	5	23	37·9	−3·1	38·9	−1·6	Nottingham.
b, East *p* Birmingham, Edgbsn.	535	56	1st	29	29th	46·4	33·4	39·7	− 2·8	3	0·43	11	+ 1	3·6	—	29	5	23	37·8	−3·5	42·1	−0·8	Birmingham.
a Raunds	203	59	1st	23	29th	48·4	29·7	38·8	− 3·6	3	2·10	53	—	*5·2*	—	*41*	7	19	40·6	*	42·2	*	*Raunds.*
p Oxford	208	57	1st	29	29th	47·6	35·1	41·2	− 2·3	2	1·63	41	+ 33	4·4	+ 0·2	35	4	23	*	*	*	*	Oxford.
a Cheadle	646	58	1st	26	29th	46·9	32·1	39·3	− 2·0	2	0·43	11	− 1	*	*	*	5	25	*	*	*	*	Cheadle.
c, West *p* Shrewsbury	191	60	1st	31	29th	50·0	35·3	42·4	− 0·9	2	0·32	8	—	*	*	*	6	25	*	*	*	*	Shrewsbury.
a Hereford§	291	58	1st	28	29th	49·1	32·9	40·8	− 2·7	4	1·12	28	+ 18	*4·9*	—	*39*	6	20	38·5	*	41·0	*	*Malvern.*§
a Bath	66	58	1st	29	1st	49·4	33·9	41·4	− 2·2	4	2·14	54	+ 42	4·0	—	32	*	*	40·9	−3·2	43·6	−1·0	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	55	1st	24	29th	46·9	32·0	39·2	− 2·5	3	1·74	44	+ 31	5·1	—	41	4	24	43·0	−0·5	44·6	+0·4	Worthing.
a Margate	53	54	31st	33	29th	49·0	35·7	42·2	− 1·1	2	0·65	17	+ 9	3·4	− 0·5	27	5	23	41·4	*	44·0	*	Marlborough.
a Wisley, Surrey	150	56	1st	30	29th	48·3	34·3	41·1	− 2·9	3	1·15	29	—	5·8	+ 1·4	47	3	28	42·3	−0·2	43·9	+1·1	Margate.
p Salisbury (Wilton)	180													4·7	—	38	5	19	40·9	−1·6	42·5	−0·9	Wisley.
a Tunbridge Wells	354	57	1st	29	29th	48·9	32·3	40·4	− 2·7	3	1·02	26	+ 14	*	*	*	*	*	*	*	*	*	Salisbury.
a Dungeness	21	52	31, 1	29	29th	48·1	34·9	41·3	− 1·9	2	0·56	14	+ 5	4·9	+ 0·4	40	5	20	41·2	−0·9	43·2	*	Tunbridge Wells.
p Hastings	178	56	1st	30	29th	48·6	35·7	42·0	− 2·1	4	0·69	18	+ 7	*	*	*	*	*	*	*	*	*	
p Southampton	64	59	1st	30	29th	50·7	34·9	42·6	− 3·2	3	1·26	32	+ 20	5·8	+ 0·9	47	2	25	42·7	*	43·9	*	Littlestone.
a Ventnor	59	56	1st	32	29th	49·1	38·1	43·4	− 1·8	4	0·96	25	+ 15	4·5	− 0·1	36	5	22	*	*	*	*	Hastings.
														5·0	− 0·2	40	*	*	*	*	*	*	Southampton.
LONDON. *p* Kew	18	55	1st	30	29th	48·7	33·4	40·8	− 3·0	3	1·21	31	+ 22	4·9	+ 0·9	40	5	24	41·2	−1·2	43·9	+0·2	Ventnor.
a Westminster	*27*	*58*	*1st*	*29*	*29th*	*50·4*	*34·2*	*42·1*	*− 1·7*	*3*	*1·29*	*33*	*+ 24*	*3·2*	*+ 0·4*	*26*	1	29	*	*	*	*	Kew.
a Greenwich	*155*	*58*	*1st*	*25*	*29th*	*50·7*	*33·1*	*41·6*	*− 3·0*	*3*	*1·18*	*30*	*+ 21*	*4·9*	*+ 1·1*	*40*	5	26	*	*	*	*	*Westminster.*
a Hampstead	*450*	*55*	*1st*	*25*	*29th*	*46·8*	*30·4*	*38·4*	—	*3*	*1·32*	*31*	—	*4·5*	—	*36*	6	22	*	*	*	*	*Greenwich.*
a Camden Square	*110*	*61*	*1st*	*32*	*28th*	*51·4*	*34·9*	*42·9*	—	*3*	*1·39*	*35*	—	*4·1*	—	*33*	5	22	*	*	*	*	*Hampstead.*
7. *a*, ENGLAND, N.W.																							*Camden Square.*
p Aspatria	250	52	1st	26	29th	46·1	33·7	39·7	− 1·7	1	0·20	5	− 10	3·9	—	31	*	*	*	*	*	*	Hoylake.
p Newton Rigg	559	58	1st	24	29th	46·4	33·4	39·7	− 1·0	2	0·30	8	− 6	5·6	*	44	4	20	39·5	*	41·8	*	Aspatria.
p Stonyhurst	375	53	31st	28	29th	45·4	34·4	39·7	− 1·9	3	0·30	8	− 11	5·1	+ 1·0	40	5	19	36·9	−4·1	39·4	−1·2	Newton Rigg.
p Blackpool	66	50	31st	32	26th	45·7	37·0	41·2	− 1·2	1	0·05	1	− 12	3·8	− 0·2	30	3	22	*	*	*	*	Stonyhurst.
a Southport	*37*	*51*	*31st*	*32*	*26th*	*45·9*	*36·0*	*40·8*	*− 1·7*	*2*	*0·10*	*3*	*− 9*	4·0	0·0	32	3	21	40·9	*	43·0	*	Blackpool.
a Liverpool (Bidston)	188	54	31st	32	26th	46·4	36·1	41·1	− 2·8	1	0·04	1	− 9	*3·8*	—	*30*	3	25	40·0	−2·1	40·9	−1·5	*Southport.*
a Hawarden Bridge	22	56	31st	32	26th	48·7	38·0	43·2	− 1·0	0	0·00	0	− 8	*3·2*	—	*17*	3	26	37·7	−3·1	41·4	−0·9	*Liverpool.*
p Manchester (Whit. Pk.)	125	57	1st	29	29th	47·7	35·6	41·5	− 1·8	1	0·09	2	− 10	*2·1*	*− 0·7*	*17*	*	*	*	*	*	*	*Manchester (City)*
																							" (Whit. Park)
b NORTH WALES.																							
p Llandudno	71	53	1st	34	26, 27	46·0	38·3	42·0	− 2·0	1	0·06	2	− 10	4·4	+ 0·2	35	*	*	*	*	*	*	Llandudno.
Holyhead	15	50	31, 1	34	26th	46·0	38·0	41·9	− 2·0	1	0·01	0·3	− 14	*3·6*	—	*29*	*	*	*	*	*	*	*Holyhead.*
p Bettws-y-Coed	148	59	1st	30	29th	48·1	36·0	41·9	− 2·0	4	0·12	3	—	3·3	—	26	*	*	39·3	−2·2	42·9	−0·1	Bettws-y-Coed.
														3·5	—	28	*	*	*	*	*	*	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.		Deviation from Normal.	Bright Sunshine. Hours per Day. Daily Mean	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														3·7	—	29	•	•	•	•	•	•	Aberystwyth.
a Llangammarch Wells	550	59	1st	26	29th	46·3	32·1	39·0	− 2·6	4	0·88	22	—	3·0	—	24	?6	19	38·5	−3·5	42·9	−0·3	Llangammarch.
a Pembroke	149	49	31, 1	31	26th	45·4	37·1	41·1	− 2·7	3	0·83	21	+ 9	4·7	− 0·1	38	•	•	•	•	•	•	Pembroke.
p Cardiff	202	57	1st	29	29th	47·9	34·3	40·9	− 3·7	4	0·88	22	+ 6	*5·0*	—	*40*	6	23	40·3	−1·9	43·2	+0·2	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	58	1st	31	29th	49·0	36·1	42·4	− 2·1	4	1·18	30	+ 17	*4·0*	—	*32*	2	26	•	•	•	•	*Clifton.*
a Shaftesbury	722	55	1st	27	29th	48·6	33·1	40·6	− 2·1	4	0·89	23	+ 10	•	•	•	•	•	39·9	•	42·1	•	Shaftesbury.
a Arlington	613	53	1st	27	29th	46·1	32·7	39·2	− 3·4	4	1·22	31	+ 11	•	•	•	•	•	•	•	•	•	Arlington.
a Newquay	*190*	*52*	*31st*	*32*	*28th*	*47·3*	*36·0*	*41·5*	*− 3·6*	*2*	*1·70*	*43*	*+ 31*	6·5	+ 1·7	52	•	•	43·6	•	45·2	•	Newquay.
a Cullompton	202	57	31, 1	29	29, 1	49·4	34·0	41·5	− 2·5	4	1·34	34	+ 21	3·1	− 1·3	25	4	24	41·6	•	•	•	Cullompton.
a Portland Bill	19	53	1st	30	29th	46·1	39·1	42·5	− 2·1	3	0·75	19	—	*4·6*	—	*37*	•	•	•	•	•	•	*Weymouth.*
p Plymouth	116	55	1st	31	29th	50·0	35·7	42·6	− 2·5	3	1·61	41	+ 27	3·9	− 0·9	31	•	•	42·4	−2·8	45·0	•	Plymouth.
a Falmouth	167	53	30, 31	30	29th	49·4	34·6	41·8	− 3·3	3	1·96	50	+ 33	6·5	+ 1·5	52	5	21	44·6	•	46·4	•	Falmouth.
9. IRELAND, N.																							
a, West .. { *a* Malin Head	208	53	1st	29	26th	46·1	35·4	40·6	− 2·3	3	0·13	3	− 9	*5·2*	—	*41*	•	•	•	•	•	•	*Malin Head.*
a Blacksod Point ..	?	50	30, 31	30	26th	46·3	36·3	41·2	− 3·5	4	0·51	13	− 7	•	•	•	•	•	•	•	•	•	
p Markree Castle ..	122	57	1st	27	28th	50·1	34·3	42·0	− 0·8	4	0·23	6	− 11	3·1	− 0·8	25	3	23	41·9	•	42·8	•	Markree Castle.
a Birr Castle	175	61	1st	29	29th	50·1	32·6	41·1	− 1·6	4	0·24	6	− 7	*5·5*	+ *1·4*	*44*	•	•	•	•	•	•	*Birr Castle.*
b, East .. { *p* Armagh	196	60	1st	28	26th	49·6	34·9	42·0	− 0·7	2	0·34	9	− 4	5·6	+ 1·8	44	4	22	40·2	−3·0	42·1	−1·6	Armagh.
a Donaghadee	101	58	1st	29	26th	48·3	34·1	41·0	− 2·2	1	0·12	3	− 9	•	•	•	•	•	•	•	•	•	
10. IRELAND, S.														•	•	•	4	22	41·6	−2·4	44·0	−0·6	Trinity Coll.
p Dublin, City	47	57	31st	31	26, 29	48·7	36·4	42·4	− 2·5	2	0·06	2	− 9	4·9	+ 0·4	39	4	17	•	•	•	•	Phœnix Park.
a, East .. { *a* Kilkenny	212	58	31, 1	28	27, 29	49·9	32·3	40·8	− 3·2	2	0·07	2	− 10	•	•	•	4	27	•	•	•	•	Dublin City.
a Waterford	20	54	1st	30	26, 27	48·0	34·7	41·2	− 3·0	2	0·13	3	− 12	•	•	•	•	•	•	•	•	•	
a Seskin, Carrick-on-Suir	*541*	*57*	*31, 1*	*28*	*26, 29*	*49·6*	*33·4*	*41·3*	—	*2*	*0·16*	*4*	—	*6·2*	—	*49*	•	•	•	•	•	•	
b, West .. { *a* Birr Castle	175	61	1st	29	29th	50·1	32·6	41·1	− 1·6	4	0·24	6	− 7	5·5	+ 1·4	44	4	24	•	•	•	•	*Seskin.*
a Foynes	50	61	1st	31	26th	50·0	35·7	42·6	− 2·2	4	0·35	9	− 6	•	•	•	•	•	•	•	•	•	Birr Castle.
a Cahir	199	58	31, 1	26	29th	50·0	33·6	41·6	− 2·2	3	0·19	5	—	•	•	•	•	•	•	•	•	•	
a Killarney	174	59	1st	29	29th	51·8	36·4	43·9	− 1·1	4	0·25	6	− 19	•	•	•	•	•	•	•	•	•	
a Valencia	30	54	31st	29	29th	48·7	35·3	41·8	− 4·1	2	0·28	7	− 18	5·3	+ 0·8	43	•	•	•	•	•	•	Valencia.
a Roche's Point	32	52	31st	33	26, 27, 29	48·1	36·6	42·2	− 3·1	4	0·18	5	− 11	5·6	—	45	•	•	•	•	•	•	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	55	31st	33	28th	48·1	37·4	42·6	− 4·1	4	1·93	49	+ 36	6·3	+ 1·3	51	•	•	•	•	•	•	Scilly.
a Jersey, St. Aubins ..	25	56	1st	35	30th	49·7	39·4	44·4	− 1·7	4	0·67	17	+ 4	4·2	− 1·1	34	•	•	•	•	•	•	St. Heliers.
a Guernsey (Villa Carey)	180	57	1st	34	29th	49·4	38·0	43·5	− 2·7	5	0·75	19	+ 4	3·8	− 1·5	31	1	25	43·7	−2·6	45·3	−0·9	Guernsey.†

†/The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, April 1st, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Above Ground.	Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Gales, force 8 or more. Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	High Winds, forces 6 and 7. Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.		Date and Hour.		Highest Gust with Date and Time.		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.			m/s.	d.	h. m.
1. SCOTLAND, E.																		
Dyce	305	75	‡15**	—	—	—	—	55	101	12	0	SW.	9	23th	15h.	23	28th	14 . 45
Aberdeen*	153	105	{37 / 52}†	—	—	23 to 28	20	66	71	9	2	WNW.	14	28th	15h.	24	26th	16 . 24
Edinburgh	485	39	31	—	—	26, 29 to 31	28	114	24	0	2	SW.	16	26th	15h.	27	28th	13 . 5
6. SCOTLAND, W.																		
Eskdalemuir	850	50	22	—	—	26, 28, 30, 31	39	90	30	9	0	WSW.	17	26th	15h.	26	26th	15 . 42
Paisley	188	81	52	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
2. ENGLAND, N.E.																		
Alnwick Castle	340	70	17	—	—	—	—	43	93	32	0	SW. by W.	9	26th	21h.	19	26th	21 . 32
South Shields	72	61	12	—	—	26, 28, 31	17	48	86	17	0	NE.	13	28th	10h.	22	28th	12 . 45
Spurn Head	66	40	‡	28th	8	26 to 29	28	63	64	3	2	E.	21	28th	16h.	31	28th	14 . 5
3. ENGLAND, E.																		
Gorleston	52	42	‡	28th	2	26 to 28	13	56	82	11	4	—	24	28th	20h.	34	28th	20 . 5
Shoeburyness	103	90	‡	28th	2	26 to 28	22	76	62	6	0	—	21	28th	20h.	31	28th	19 . 47
4. MIDLAND COUNTIES.																		
Benson	270	84	‡	28th	2	26 to 28	13	58	69	26	0	N.	18	28th	18h.	31	28th	17 . 52
5. ENGLAND, S.E.																		
Dover	271	40	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Warlingham	642	33	‡	—	—	28th	8	28	87	45	0	—	13	28th	20h.	28	28th	19 . 10
Brighton	261	53	6	—	—	26 to 28	18	49	40	0	61	—	16	28th	2h.	30	28th	20 . 55
Kew Observatory ..	82	65	{6 / 22}†	28th	2	28th	5	47	89	25	0	N. by E.	17	28th	19h.	32	28th	18 . 15
South Kensington ..	123	92	30	—	—	—	—	21	102	45	0	N. by E.	11	28th	20h.	19	28th	20 . 7
7. ENGLAND, N.W.																		
Carnforth	246	56	23	—	—	26th	3	71	62	32	0	WSW.	13	26th	9h.	20	26th	5 . 20
Southport	80	62	48	26 to 28	16	26 to 31	41	76	34	1	0	SW. by W.	22	26th	4h.	31	26th	4 . 20
Holyhead*	60	40	‡	26, 28	10	26 to 30	42	95	20	1	0	W.	20	26th	6h.	28	26th	4 . 15
8. ENGLAND, S.W.																		
Pendennis Castle§ ..	256	65	24	27, 28	5	23 to 28	28	61	57	17	0	ENE.	20	27th	15h.	30	28th	5 . 6
Plymouth	185	88	2	—	—	27, 28	8	40	90	30	0	—	12	28th	12h.	22	27th	16 . 21
10. IRELAND, S.																		
Quilty	100	40	‡	—	—	26, 27	18	86	49	6	9	—	16	26th	2h.	24	26th	1 . 26
Weaver Pt.	160	30	‡	—	—	26th	2	87	65	14	0	—	12	28th	13h.	20	26th	13 . 20
11. ENGLISH CHANNEL.																		
Scilly*	150	{32 / 19}	‡	27, 28	7	26 to 29	43	45	34	39	0	NW.	24	27th	22h.	33	27th	21 . 51

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.

† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew), and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

THIRTEENTH WEEK—March 26th to April 1st, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
			Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	53	20	79·3	73·6	76·4	− 1·3	4	− 13	32	+ 5	5	+ 1	1·28	33	+ 10	2·3	−1·7	18	1002
Eastern.																			
1. SCOTLAND, EAST ...	65	21	80·2	73·2	76·6	− 1·2	8	− 14	35	+ 6	2	− 2	0·28	7	− 5	4·8	+0·5	38	1004
2. ENGLAND, N.E.	60	26	82·2	74·2	78·1	− 0·3	18	− 5	31	+ 8	2	− 1	0·35	9	− 1	5·7	+1·0	45	1008
3. ENGLAND, EAST ...	60	26	82·3	73·8	77·9	− 1·1	19	− 11	33	+ 9	3	0	1·16	29	+ 20	5·2	+0·4	41	1011
4. MIDLAND COUNTIES ...	60	23	82·1	73·7	77·8	− 1·1	18	− 14	34	+ 9	3	− 1	0·91	23	+ 13	4·5	+0·2	36	1010
5. ENGLAND, S.E.	59	24	82·3	74·4	78·2	− 1·5	19	− 13	29	+ 13	3	0	1·03	26	+ 17	4·9	+0·2	40	1011
Western.																			
6. SCOTLAND, WEST ...	57	23	81·1	74·4	77·7	− 0·9	13	− 9	28	+ 7	3	− 1	0·22	6	− 13	4·8	+0·3	38	1007
7. ENGLAND, N.W.	59	24	81·2	75·3	78·1	− 0·8	13	− 11	23	+ 4	2	− 2	0·12	3	− 11	4·2	−0·1	33	1010
8. ENGLAND, S.W.	59	26	81·8	74·6	78·1	− 1·7	16	− 16	28	+ 14	4	0	1·15	29	+ 14	4·5	−0·3	36	1012
9. IRELAND, NORTH ...	61	27	82·1	74·4	78·2	− 0·9	18	− 8	29	+ 11	3	− 2	0·26	7	− 10	4·4	+0·2	35	1009
10. IRELAND, SOUTH ...	61	26	82·7	74·6	78·6	− 1·4	21	− 12	20	+ 6	3	− 1	0·19	5	− 12	5·3	+0·6	42	1013
11. ENGLISH CHANNEL ...	57	33	82·5	76·5	79·4	− 1·7	26	− 11	10	+ 6	4	0	1·12	28	+ 16	4·8	−0·8	38	1013

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 5 Weeks, February 27th to April 1st, 1916.

0. SCOTLAND, NORTH ...	53	20	78·0	73·3	75·6	− 1·3	6	− 47	193	+ 36	24	− 1	2·90	73	− 52	2·3	−0·7	20	1009
Eastern.																			
1. SCOTLAND, EAST ...	65	18	77·5	72·6	75·0	− 1·9	8	− 66	236	+ 63	25	+ 5	3·56	90	+ 25	2·3	−1·2	20	1009
2. ENGLAND, N.E.	60	20	78·6	73·8	76·1	− 1·6	18	− 70	181	+ 42	28	+10	4·07	103	+ 53	2·4	−1·5	21	1006
3. ENGLAND, EAST ...	61	24	79·6	74·1	76·7	− 1·2	37	− 75	163	+ 13	26	+ 8	3·91	98	+ 54	2·2	−1·7	19	1005
4. MIDLAND COUNTIES ...	60	21	79·0	73·3	76·1	− 1·8	30	− 86	195	+ 45	24	+ 7	4·73	121	+ 71	1·9	−1·6	17	1005
5. ENGLAND, S.E.	59	18	80·2	74·4	77·3	− 1·2	58	− 60	144	+ 31	24	+ 8	4·59	116	+ 64	2·5	−1·4	22	1004
Western.																			
6. SCOTLAND, WEST ...	57	17	79·1	73·5	76·2	− 1·6	24	− 54	178	+ 51	17	− 4	1·67	43	− 58	2·7	−0·8	23	1008
7. ENGLAND, N.W.	59	8	79·0	74·0	76·4	− 1·6	23	− 64	165	+ 49	20	+ 2	2·43	62	− 6	2·4	−1·0	21	1006
8. ENGLAND, S.W.	59	17	79·8	74·0	76·8	− 2·0	52	− 68	164	+ 70	22	+ 4	4·00	102	+ 23	3·2	−0·7	28	1004
9. IRELAND, NORTH ...	61	18	79·6	73·9	76·7	− 1·7	34	− 68	161	+ 54	20	− 3	1·88	49	− 30	2·7	−0·6	24	1008
10. IRELAND, SOUTH ...	61	20	80·3	74·4	77·3	− 2·0	54	− 80	134	+ 51	24	+ 4	2·24	56	− 31	3·2	−0·6	28	1007
11. ENGLISH CHANNEL ...	59	30	81·2	76·5	78·8	− 1·5	81	− 65	61	+ 26	26	+ 6	4·98	125	+ 59	3·5	−1·3	30	1003

THE YEAR.—Aggregates, &c., for the Period of 13 Weeks, January 2nd to April 1st, 1916.

0. SCOTLAND, NORTH ...	53	20	79·3	74·4	76·8	+ 0·2	108	+ 1	371	− 80	71	+ 5	18·38	466	+ 86	1·8	−0·1	20	1006
Eastern.																			
1. SCOTLAND, EAST ...	65	7	79·1	73·7	76·4	+ 0·1	104	− 31	480	− 29	61	+10	9·84	251	+ 73	2·3	−0·2	24	1008
2. ENGLAND, N.E.	60	20	80·2	74·9	77·6	+ 0·5	178	+ 20	333	− 74	56	+ 9	7·09	181	+ 53	2·3	−0·4	23	1010
3. ENGLAND EAST ...	61	24	80·7	75·1	77·9	+ 0·9	206	+ 17	315	−137	59	+12	8·43	212	+ 92	2·1	−0·7	22	1011
4. MIDLAND COUNTIES ...	60	21	80·5	74·7	77·6	+ 0·6	202	− 4	354	− 96	56	+10	9·13	233	+ 87	1·9	−0·5	19	1011
5. ENGLAND, S.E.	59	15	81·2	75·7	78·5	+ 0·7	258	+ 37	263	− 80	60	+16	9·73	247	+ 94	2·3	−0·4	23	1012
Western.																			
6. SCOTLAND, WEST ...	57	17	80·1	74·9	77·5	+ 0·1	152	− 6	315	− 44	62	+ 5	10·53	268	− 37	2·2	−0·1	23	1010
7. ENGLAND N.W.	59	8	80·6	75·7	78·1	+ 0·6	190	+ 20	272	− 66	59	+ 8	8·87	225	+ 27	1·9	−0·4	20	1011
8. ENGLAND, S.W.	59	17	81·0	76·1	78·5	+ 0·1	246	− 8	250	− 19	63	+12	12·01	308	+ 69	2·3	−0·5	24	1012
9. IRELAND NORTH ...	61	18	80·9	75·3	78·1	+ 0·1	206	− 6	283	− 16	64	+ 4	8·32	213	− 17	2·4	0·0	25	1010
10. IRELAND, SOUTH ...	61	20	81·7	76·0	78·9	0·0	275	− 24	213	− 16	72	+18	9·43	238	− 22	2·5	−0·2	25	1013
11. ENGLISH CHANNEL ...	59	30	82 2	78·2	80·2	+ 0·2	353	+ 11	82	− 23	69	+12	11·94	301	+100	2·6	−0·8	26	1013
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	m.m.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., April 6th, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 14. SUNDAY, APRIL 2ND, TO SATURDAY, APRIL 8TH, 1916. *Price 6d., Post free 7d* *Annual Subscription Post Paid £1 10s. 0d.*

I.—THE FOURTEENTH WEEK OF 1916.

The fairer conditions which set in during the preceding week were maintained over the whole country during the period under review, a deficiency of rainfall and excess of bright sunshine being almost universal. Temperature changed little throughout the week and the mean values showed no great departure from the normal. The highest readings occurred generally on the 2nd and 3rd. 291°·3 A. (65° F.) was reached or exceeded in the east of the country and the Midlands but extreme readings ranged lower in the west. The highest recorded was 294°·7 A. (71° F.) at Tunbridge Wells and Westminster. The lowest minimum in the screen occurred on varying days. Temperature fell to 266°·9 A. (21° F.) at Eskdalemuir and to 267°·4 A. (22° F.) at Llangammarch Wells, but to little below 271°·9 A. (30° F.) at the majority of stations. Precipitation was normal in England East, but deficient in all other districts. The week was almost rainless in the Midland Counties, Scotland West and England South-West. On Friday morning snow fell at a few stations in the south-east of the country. Ireland suffered a slight deficiency of bright sunshine, but in all other districts records were in excess of the average, as much as 2·5 hours per day in England South-East, South-West and the Channel. Fog was reported at a good many stations in the South-East of the country on Monday. A lunar halo was observed at Oxford on Thursday night, and frequent lightning during Wednesday night at Aberdeen. Sea temperature reports showed little departure from the normal.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		ENGLAND, E.		NORTH WALES.		ENGLAND, S.W.		IRELAND, S.	
	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.
		m/s		m/s		m/s		m/s		m/s
South	5	5·4	1	1·7	4	2·7	2	3·1	2	3·4
North	2	7·4	6	2·4	3	3·8	5	5·4	5	3·6
West	4	4·4	4	1·9	6	3·0	3	3·8	4	3·6
East	3	2·2	3	1·8	¼	0·6	3	2·9	3	1·2
Calm	0	—	0	—	0	—	0	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH AVERAGE.

An explanation of the terms "Unusual," &c., is printed on a separate sheet, *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ... Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
Rainfall ...	Moderate	Light	Light	Moderate	Light	Moderate	Light	Light	Very light	Light	Moderate	Moderate
Sunshine ...	Moderate	Moderate	Abundant	Abundant	Abundant	Very abundant	Abundant	Abundant	Very abundant	Moderate	Moderate	Abundant

II.—THE SPRING SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SPRING. 6 weeks from Feb. 27th, 1916.												
Warmth ...	0, 3, 3	0, 1, 5	0, 2, 4	0, 4, 2	0, 3, 3	0, 3, 3	0, 2, 4	0, 2, 4	0, 2, 4	0, 2, 4	0, 2, 4	0, 2, 4
Rainfall ...	1, 2, 3	3, 2, 1	4, 1, 1	5, 1, 0	5, 0, 1	4, 2, 0	0, 2, 4	1, 2, 3	2, 2, 2	0, 3, 3	0, 3, 3	3, 3, 0
Sunshine ...	0, 4, 2	0, 3, 3	1, 2, 3	1, 1, 4	1, 1, 4	1, 1, 4	1, 3, 2	1, 3, 2	1, 3, 2	0, 4, 2	0, 4, 2	1, 1, 4

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.

Increment of 1° A. = increment of $\frac{9}{5}$° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(7898—19.) Wt. 79a—736. 450. 4/16. D & S. G. 17/ 36.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration	Grass Min.		Earth 1 ft.		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts	Lowest Reading.	Mean.	Deviation from Average.	Mean.	Deviation from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.																							
p Baltasouna	*31*																						*Baltasound.*
a, Islands .. { *a* Lerwick	54	50	2nd	35	8th	45·9	38·0	41·8	+ 1·8	4	0·60	15	—	5·7	+ 1·4	44							Deerness.
a Stornoway	51	51	2,3	29	6th	47·7	38·0	42·6	+ 1·0	6	0·47	12	- 8	5·5	+ 0·9	42							Stornoway
a Castlebay, Barra Isd.	*37*	*48*	*3,8*	*37*	*6th*	*46·7*	*40·6*	*43·5*	+ *0·6*	*6*	*0·79*	*20*	—	*4·8*	—	*37*							*Castlebay.*
a Wick	81	53	2nd	28	6th	48·0	35·3	41·4	- 0·1	4	0·18	5	- 7										
b, Main- *p* Strathpeffer	200	60	2nd	27	6th	50·4	34·3	42·0	+ 0·3	2	0·20	5	- 7	4·2	+ 0·2	32							Strathpeffer.
land. *p* Glencarron	500	56	2nd	26	6th	47·4	34·3	40·5	0·0	6	0·85	22	- 14										
p Fort Augustus	68	59	2nd	27	6th	50·6	35·0	42·4	+ 0·7	3	0·30	8	- 8	3·6	+ 0·3	27							Fort Augustus.
p Fort William	171	58	2nd	28	6th	51·3	35·3	42·9	+ 0·4	5	0·37	9	- 20										
														5·0	—	38	5	19	40·7	- 0·3	39·6	- 0·7	Crathes.
p Gordon Castle	101	65	2nd	29	6th	52·0	34·9	43·0	+ 0·6	3	0·20	5	- 6	*4·9*	—	*37*							*Gordon Castle.*
a Nairn	82	63	2nd	26	6th	51·4	34·0	42·3	+ 0·5	3	0·20	5	- 3	4·7	—	36							Nairn.
a Aberdeen	46	62	2nd	32	2nd	51·1	35·3	42·8	+ 0·7	5	0·24	6	- 6	6·2	+ 1·6	47			40·2	- 0·8			Aberdeen.
a Balmoral	930	58	2nd	24	6th	48·0	29·3	38·2	- 0·2	3	0·19	5	- 9				6	22					Balmoral.
p Crieff	432	61	2nd	30	4, 8	50·3	32·0	40·7	- 2·0	2	0·02	1	- 14	5·3	—	40							Balruddery.
a Leith	18	58	2nd	34	6th	50·3	36·6	43·1	- 0·2	1	0·01	0·2	- 8										
a West Linton	769	60	2,3	25	2nd	49·4	29·7	39·1	+ 0·5	1	0·01	0	—	*4·8*	—	*37*	7	17					*West Linton.*
p Marchmont	498	64	2nd	30	8th	52·1	32·6	41·9	+ 0·9	0	0·00	0	- 13	5·9	+ 1·7	45	6	26					Marchmont.
a Edinburgh	*441*	*59*	*2nd*	*34*	*6th*	*50·1*	*36·6*	*43·0*	—	*0*	*0·00*	*0*	—	4·7	—	36	2	26					Edinburgh.
6. *a* SCOTLAND, W.																							
a Poltalloch	132	56	2nd	34	2nd	49·6	37·3	43·2	+ 0·4	4	0·10	3	- 14										
p Glasgow Observatory	180	59	2nd	34	2nd	49·3	37·1	42·9	+ 0·5	2	0·04	1	- 12	3·8	+ 0·2	29	4	25					Glasgow.
p Rothesay	170	54	2nd	34	2, 6	48·3	35·6	41·7	- 1·7	3	0·13	3	- 15	*5·0*	—	*39*	4	26	42·7		41·9	- 0·8	*Rothesay.*
a Kilmarnock	90	62	2nd	27	2nd	51·7	33·7	42·3	- 0·4	4	0·09	2	—	*4·6*	—	*35*			41·8				*Kilmarnock.*
a Colmonell	170	60	2nd	28	6th	50·9	34·6	42·4	- 1·1	3	0·17	4	- 13				4	25					
a Dumfries	160	60	2nd	27	2nd	50·1	32·9	41·1	- 1·9	3	0·06	2	- 12	*5·6*	—	*43*	6	23	41·7		41·1		*Dumfries.*
Eskdalemuir	*799*	*59*	*2nd*	*21*	*2nd*	*48·6*	*27·6*	*37·3*	—	*2*	*0·03*	*2*	—	*5·2*	—	*40*							*Eskdalemuir.*
p Cally, Gatehouse	120	58	2nd	26	2nd	51·3	31·3	40·8	- 2·0	3	0·06	2	- 17										
b, I. OF MAN. *p* Douglas	277	53	2nd	29	2nd	48·4	36·4	42·1	- 1·3	2	0·09	2	- 13	7·8	+ 2·5	60	3	23					Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	60	3rd	29	7th	50·6	33·7	41·7	- 0·2	4	0·21	5	- 7	6·8	—	52	4	22	40·2	- 0·8	40·8	- 0·4	Cockle Park.
a Tynemouth	71	53	8th	33	6th	48·1	35·6	41·6	- 1·0	4	0·31	8	0										*Tynemouth.*
p Durham	336	62	2,3	28	2, 6	51·9	32·0	41·5	- 0·4	3	0·17	4	- 5	6·4	+ 2·3	49	5	21					Durham.
a, North .. { *p* Rounton	249	63	3rd	29	6, 8	52·0	32·1	41·6	- 0·2	4	0·20	5	- 6				6	24	42·1				Rounton.
a West Witton	*605*	*63*	*2nd*	*29*	*6th*	*50·9*	*33·6*	*41·8*	—	*3*	*0·08*	*2*	—				6	22	40·4		37·7		*West Witton.*
p Scarborough†	100	57	2,3	33	8th	53·1	37·6	45·0	+ 2·0	1	0·10	3	- 7	7·0	—	54					42·0		Scarborough.
p York	56	62	3rd	31	6th	52·1	34·1	42·7	- 1·0	3	0·11	3	- 7	5·7	+ 1·7	44			42·2	- 0·5	42·0	- 0·2	York.
a Spurn Head	26	54	3, 8	35	8th	49·6	37·3	43·2	0·0	3	0·35	9	+ 2	*6·7*	—	*52*							*Spurn Head*
b, South .. { *a* Lincoln	58	65	3rd	30	6, 8	54·3	34·6	44·0	+ 0·1	2	0·06	2	- 6						42·8	+0·1	42·2	- 0·1	Lincoln.
a Fulbeck	180	66	3rd	29	8th	52·9	33·3	42·6	- 1·1	3	0·08	2	- 7	7·1	—	55	?3	28	43·7	- 0·1	42·2	- 1·1	Rauceby.
														8·3	—	64							Skegness.
3. ENGLAND, E.																							
p Cromer	196	62	3rd	34	8th	51·0	37·4	43·9	+ 1·5	3	0·33	9	—	7·5	—	58							Cromer.
p Little Massingham	280	67	3rd	31	8th	53·9	34·7	43·8	+ 0·1	5	0·36	9	- 1	6·3	+ 1·8	48	4	23					Lit. Massingham.
a, North .. { *a* Yarmouth	13	51	4th	33	8th	48·0	35·7	41·6	- 1·0	2	0·51	13	+ 4	7·2	—	55			45·3	+1·1	44·9	+0·2	Yarmouth.
a Norwich	93	70	3rd	30	8th	53·6	35·0	43·9	+ 0·8	3	0·42	11	—	*6·5*	—	*50*	4	23	42·8				*Norwich.*
a Geldeston	37	?57	3rd	30	8th	?48·7	35·0	?41·5	?- 1·9	3	0·39	10	+ 1	6·3	+ 1·4	48							Geldeston.
p Cambridge	41	68	3rd	27	8th	54·9	32·6	43·2	- 1·0	2	0·25	6	- 2	6·5	+ 1·7	50	2	18	44·2	- 0·4	43·8	- 0·6	Cambridge.
b, South .. { *a* Clacton-on-Sea	54	55	3rd	35	5, 8	50·0	38·0	43·7	+ 0·4	2	0·28	7	—	7·5	—	58	2	29	44·4	+0·1	44·5	- 0·6	Clacton.
a Rothamsted	424	64	3rd	30	8th	52·0	33·4	42·3	- 1·1	2	0·28	7	- 3	6·9	+ 2·4	53	5	19	41·3				Rothamsted.
p Tottenham	51	66	3rd	32	8th	55·3	36·3	45·3	+ 0·8	1	0·42	11	—	6·1	—	47	1	27			44·4	+0·3	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. { *a* Harrogate	479	60	3rd	31	6th	50·7	33·6	41·7	- 0·5	3	0·13	3	- 9	7·3	—	56	4	25	40·9	- 0·5	41·0	- 0·5	Harrogate.
p Buxton	*987*	*58*	*3rd*	*28*	*6th*	*49·7*	*32·1*	*40·5*	+ *0·1*	*1*	*0·04*	*1*	- *18*	*6·6*	—	*51*	7	16	40·0	-1·0	39·3	-1·8	*Buxton.*
														5·7	—	44	4	28	41·4	- 0·2	40·8	- 0·5	Sheffield.
a Bawtry	65	61	2,3	28	2,8	52·9	31·3	41·6	- 2·1	3	0·11	3	- 5	6·2	+ 2·2	48	7	18	42·6		42·4		Worksop.
a Nottingham	82	64	3rd	29	8th	53·6	33·1	42·9	- 0·7	0	0·00	0	- 9	6·7	—	52	5	23	41·7	- 0·6	40·3	- 1·1	Nottingham.
b, East .. { *p* Birmingham, Edgbsn.	535	65	3rd	33	6, 8	54·1	36·4	44·8	+ 1·4	3	0·06	2	- 9	6·8	—	52	4	18	41·3	- 0·7	42·3	- 1·0	Birmingham.
a Raunds	203	69	3rd	27	8th	56·0	30·1	42·4	- 1·0	2	0·14	4	—	*7·4*	—	*57*	7	22	41·9		42·9		*Raunds.*
p Oxford	268	65	3rd	31	8th	55·7	35·9	45·3	+ 0·8	2	0·04	1	- 7	7·9	+ 3·4	61	7	21					Oxford.
a Cheadle	646	60	3rd	31	6th	52·0	33·7	42·4	0·0	0	0·00	0	- 12				4	24					Cheadle.
c, West .. { *p* Shrewsbury	191	63	3rd	26	8th	55·6	32·3	43·4	- 1·3	1	0·05	1	—				5	23					Shrewsbury.
a Hereford§	291	64	3rd	28	6, 8	55·9	32·1	43·4	- 1·1	0	0·00	0	- 19	*8·8*	—	*68*	7	21	43·3		42·1		*Malvern.*§
a Bath	66	66	2nd	28	8th	55·0	33·0	43·5	- 1·2	0	0·00	0	- 12	7·6	—	59			44·5	- 0·8	43·9	- 1·4	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	64	2nd	30	2, 5, 8	54·4	31·0	42·1	- 0·8	0	0·00	0	- 12	8·6	—	67	2	28	45·6	+1·1	45·2	+0·5	Worthing.
a Margate	53	54	3rd	39	3rd	48·0	40·6	44·1	- 0·2	1	0·14	4	- 4	8·4	+ 4·2	65	6	20	44·2		44·6		Marlborough.
a Wisley, Surrey	150	67	3rd	30	8th	54·4	34·3	43·9	- 1·3	2	0·11	3	—	6·9	+ 2·2	54	0	34	46·1	+2·7	44·9	+1·5	Margate.
p Salisbury (Wilton)	180	65	2nd	29	8th	56·0	33·6	44·3	- 0·6	0	0·00	0	- 12	6·4	—	50	4	19	43·9	+0·4	43·1	- 0·9	Wisley.
a Tunbridge Wells	354	71	3rd	30	8th	56·0	35·3	45·2	+ 1·1	1	0·47	12	+ 1	6·3	+ 1·5	49	5	24	45·1				Salisbury.
																	5	22	44·2	+1·0	43·8		Tunbridge Wells.
a Dungeness	21	55	3rd	33	8th	50·6	37·1	43·5	- 0·3	1	0·31	8	- 1										Littlestone.
p Hastings	178	60	2,3	36	7th	52·6	40·0	46·0	+ 1·0	3	0·36	9	- 2	7·9	+ 2·7	61	0	31	46·0		44·4		Hastings.
p Southampton	64	61	2nd	32	8th	54·9	36·0	45·0	- 2·5	0	0·00	0	- 11	8·2	+ 3·2	64	5	20					Southampton.
a Ventnor	59	61	3rd	34	6, 7	53·6	38·1	45·5	- 0·6	0	0·00	0	- 10	9·1	+ 3·6	71							Ventnor.
LONDON. *p* Kew	18	64	3rd	33	8th	53·2	36·5	44·5	- 0·4	2	0·25	6	- 3	6·4	+ 2·1	50	5	23	43·9	+0·5	44·2	0·0	Kew.
a Westminster	*27*	*71*	*3rd*	*33*	*8th*	*56·1*	*37·2*	*46·2*	+ *1·3*	*1*	*0·26*	*7*	- *2*	*5·9*	+ *2·8*	*46*	0	32					*Westminster.*
a Greenwich	*155*	*68*	*3rd*	*31*	*8th*	*54·7*	*35·6*	*44·7*	- *0·5*	*1*	*0·34*	*9*	*0*	5·7	+ *1·5*	*44*	5	25					*Greenwich.*
a Hampstead	*450*	*68*	*3rd*	*31*	*7th*	*52·7*	*35·0*	*43·4*	—	*1*	*0·22*	*6*	—	*7·4*	—	*57*	7	21					*Hampstead.*
a Camden Square	*110*	*67*	*3rd*	*34*	*8th*	*56·6*	*36·3*	*46·0*	—	*2*	*0·28*	*7*	—	*5·9*	—	*46*	2	29					*Camden Square.*
7. *a*, ENGLAND, N.W.																							
p Aspatria	250	59	2nd	24	2nd	51·0	33·4	41·8	- 0·5	3	0·13	3	- 11	7·9	—	61							Hoylake.
p Newton Rigg	559	62	2nd	27	2, 8	51·4	32·4	41·4	- 0·3	4	0·08	2	- 11	6·0	—	46	1	22	43·2		42·2		Aspatria.
p Stonyhurst	375	59	2nd	31	2, 3	49·4	33·6	41·1	- 1·4	1	0·03	1	- 16	5·5	+ 1·1	42	7	19	41·6	- 0·5	40·0	- 1·3	Newton Rigg.
p Blackpool	66	62	2nd	28	2nd	50·4	34·6	42·1	- 1·2	2	0·08	2	- 10	5·8	+ 1·5	45	6	25					Stonyhurst.
a Southport	*37*	*62*	*2nd*	*27*	*2nd*	*50·6*	*35·1*	*42·5*	- *0·9*	*1*	*0·08*	*2*	- *10*	7·3	+ 3·0	56	5	17	43·9		43·4		Blackpool.
a Liverpool (Bidston)	188	59	2nd	31	2nd	49·7	35·9	42·5	- 2·0	2	0·16	4	- 6	*7·5*	+ *2·9*	*58*	4	23	43·7	+0·4	42·7	- 0·6	*Southport.*
a Hawarden Bridge	22	61	2nd	32	8th	52·3	37·7	44·7	- 0·6	2	0·06	2	- 6	*6·3*	—	*48*							*Liverpool.*
p Manchester (Whit. Pk.)	125	63	2nd	31	2nd	51·9	35·4	43·3	- 1·1	1	0·01	0·3	- 12	*4·5*	—	*35*	2	29	40·9	- 1·0	41·9	- 1·0	*Manchester (City)*
														3·5	+ *0·4*	*27*							" *(Whit. Park)*
b NORTH WALES.																							
p Llandudno	71	54	2nd	34	2, 6	49·0	37·1	42·8	- 2·0	2	0·19	5	- 6	7·2	+ 2·7	55							Llandudno.
Holyhead	15	55	2nd	35	2, 3	49·7	37·6	43·4	- 1·2	2	0·21	5	- 8	*6·9*	—	*53*							*Holyhead.*
p Bettws-y-Coed	148	66	2nd	29	6th	53·1	32·6	42·4	- 2·3	2	0·08	2	—	6·2	—	48			41·9	- 0·2	43·1	- 0·3	Bettws-y-Coed.
														6·6	—	51							Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	Bright Sunshine. Hours per Day. Daily Mean	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														6·7	—	52							
a Llangammarch Wells	550	61	2nd	22	6th	52·8	28·5	40·1	− 2·5	1	0·03	1	—	6·3	—	49	?6	15	41·5	−1·2	43·0	−0·6	Llangammarch.
a Pembroke	149	54	2nd	36	6, 8	48·9	37·9	43·1	− 1·5	4	0·21	5	− 7	6·4	+ 1·2	50	*	*	*	*	*	*	Pembroke.
p Cardiff	202	62	2nd	32	6th	52·9	35·1	43·6	− 2·1	0	0·00	0	− 16	*8·5*	—	*66*	4	23	44·0	+0·7	43·6	0·0	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	64	2nd	32	8th	53·6	38·6	44·7	− 0·5	0	0·00	0	− 13	*9·0*	—	*70*	2	29	*	*	*	*	*Clifton.*
a Shaftesbury	722	61	2nd	32	6th	51·6	35·7	43·3	− 0·1	0	0·00	0	− 13	*	*	*	*	*	44·4	*	43·4	*	Shaftesbury.
a Arlington	613	58	2nd	28	7th	50·7	33·6	41·7	− 2·0	4	0·11	3	− 16	*	*	*	*	*	*	*	*	*	Arlington.
a Newquay	*190*	*56*	*2nd*	*30*	*8th*	*49·1*	*35·4*	*41·9*	− *4·1*	*3*	*0·11*	*3*	− *9*	8·8	+ 3·7	68	*	*	46·4	*	45·5	*	Newquay.
a Cullompton	202	60	2nd	27	8th	54·3	32·3	42·8	− 2·1	1	0·02	0·4	− 13	8·0	+ 3·3	62	6	21	45·1	*	*	*	Cullompton.
a Portland Bill	19	53	5th	36	6th	49·9	39·9	44·7	− 0·8	0	0·00	0	—	*8·6*	—	*67*	*	*	*	*	*	*	*Weymouth.*
p Plymouth	116	60	2nd	32	7th	52·9	37·4	44·8	− 1·2	1	0 02	0·4	− 14	9·1	+ 4·0	71	*	*	44·9	−1·1	45·4	*	Plymouth.
a Falmouth	167	54	8th	36	2nd	51·1	38·1	44·3	− 1·6	2	0·09	2	− 14	9·6	+ 4·3	74	5	27	47·7	*	46·8	*	Falmouth.
9. IRELAND, N.																							
a, West .. { *a* Malin Head	208	52	2, 6	35	6th	48·9	38·0	43·2	− 0·4	4	0·08	2	− 9	*6·8*	—	*52*	*	*	*	*	*	*	*Malin Head.*
a Blacksod Point ..	?	51	8th	37	5th	47·9	39·1	43·3	− 1·7	7	0·30	8	− 11	*	*	*	*	*	*	*	*	*	
p Markree Castle ..	122	56	2nd	28	2, 6	51·6	32·6	41·6	− 2·1	6	0·69	18	+ 2	4·5	+ 0·3	35	4	25	44·5	*	43·2	*	Markree Castle.
a Birr Castle ..	175	54	2nd	30	2nd	51·1	33·1	41·7	− 2·0	3	0·28	7	− 6	*4·6*	+ *0·1*	*35*	*	*	*	*	*	*	*Birr Castle.*
b, East .. { *p* Armagh	196	58	2nd	28	6th	51·7	34·1	42·5	− 1·1	3	0·11	3	− 10	4·6	+ 0·4	35	4	22	43·0	−1·0	42·8	−1·4	Armagh.
a Donaghadee	101	53	8th	32	8th	48·9	34·9	41·6	− 2·3	3	0·17	4	− 8	*	*	*	*	*	*	*	*	*	
														*	*	*	*	*	*	*	*	*	Trinity Coll.
														5·0	+ 0·2	39	6	17	*	*	*	*	Phœnix Park.
10. IRELAND, S.														*	*	*	3	28	*	*	*	*	Dublin City.
a, East .. { *p* Dublin, City	47	57	2nd	32	6th	51·0	36·4	43·4	− 2·4	3	0·17	4	− 7	*	*	*	*	*	*	*	*	*	
a Kilkenny	212	58	2nd	29	2, 8	52·0	31·6	41·3	− 3·4	4	0·29	7	− 6	*	*	*	*	*	*	*	*	*	
a Waterford	20	56	2nd	30	2nd	52·1	34·3	42·8	− 2·0	2	0·25	6	− 10	*	*	*	*	*	*	*	*	*	
a Seskin, Carrick-on-Suir	*541*	*56*	*2nd*	*31*	*2nd*	*51·3*	*34·6*	*42·6*	—	*3*	*0·37*	*9*	—	*5·2*	—	*40*	4	23	*	*	*	*	*Seskin.*
b, West .. { *a* Birr Castle	175	54	2nd	30	2nd	51·1	33·1	41·7	− 2·0	3	0·28	7	− 6	4·6	+ 0·1	35	*	*	*	*	*	*	Birr Castle.
a Foynes	50	55	2nd	32	2nd	50·6	36·1	43·0	− 2·7	4	0·48	12	− 3	*	*	*	*	*	*	*	*	*	
a Cahir	198	54	2nd	28	2nd	51·4	33·1	41·8	− 2·6	5	0·33	8	—	*	*	*	*	*	*	*	*	*	
a Killarney	174	58	2nd	31	6th	52·4	36·9	44·3	− 1·3	6	0·74	19	− 4	*	*	*	*	*	*	*	*	*	
a Valencia	30	52	8th	31	6th	49·9	38·1	43·7	− 2·7	6	0·62	16	− 8	4·0	− 0·8	31	*	*	*	*	*	*	Valencia.
a Roche's Point	32	53	5, 7	35	8th	50·6	38 7	44·4	− 1·6	5	0·50	13	− 4	4·9	—	38	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	54	2, 3	40	5-7	51·7	41·3	46·3	− 0·9	3	0·09	2	− 10	8·5	+ 3·2	66	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	59	2nd	35	7th	51·7	40·1	45·8	− 1·2	1	0·12	3	− 10	9·0	+ 3·3	70	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	61	3rd	37	8th	53·4	41·4	47·1	+ 0·1	1	0·03	1	− 13	8·4	+ 2·7	65	1	29	47·5	+0·3	46·1	−0·7	Guernsey.†

†/The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, April 8th, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Above Ground.	Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.	Date and Hour.	Highest Gust with Date and Time.
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	m/s.		m/s. d. h. m.
1. SCOTLAND, E.														
Dyce	305	75	‡15**	—	—	—	—	29	82	57	0	WNW. 9	8th 12h.	19 8th 11 . 37
Aberdeen*	153	105 { 37 / 52 } †		—	—	—	—	51	81	36	0	SW. 11	8th 14h.	18 5th 8 . 16
Edinburgh	485	39	31	—	—	8th	4	74	83	7	0	SW. 12	8th 11h.	18 8th 11 . 48
6. SCOTLAND, W.														
Eskdalemuir	850	50	22	—	—	8th	6	42	60	60	0	SW. by W. 13	8th 12h.	19 8th 11 . 56
Paisley	188	81	52	—	—	—	—	23	102	43	0	NW. 8	4th 12h.	18 4th 11 . 45
2. ENGLAND, N.E.														
Alnwick Castle	340	70	17	—	—	—	—	13	76	79	0	NNW. 8	5th 11h.	14 5th 11 . 27
South Shields	72	61	12	—	—	—	—	28	85	55	0	WNW. 9	4th 14h.	14 4th 14 . 34
Spurn Head	63	40	‡	—	—	5th	7	38	97	17	9	NE. 13	5th 12h.	16 5th 12 . 2
3. ENGLAND, E.														
Gorleston	52	42	‡	—	—	—	—	34	101	33	0	— 11	5th 15h.	15 5th 15 . 28
Shoeburyness	103	90	‡	—	—	—	—	42	119	7	0	NNW. 9	4th 9h.	14 4th 10 . 8
4. MIDLAND COUNTIES.														
Benson	270	84	‡	—	—	—	—	24	85	59	0	NW. 9	4th 8h.	15 5th 13 . 57
5. ENGLAND, S.E.														
Dover	271	40	‡	—	—	4th	5	52	63	48	0	— 13	4th 10h.	17 4th 10 . 15
Warlingham	642	33	‡	—	—	—	—	—	55	113	0	— 4	5th 16h.	10 5th 19 . 22
Brighton	261	53	6	—	—	—	—	12	76	13	67	— 10	2nd 4h.	13 2nd 6 . 27
Kew Observatory ..	82	65 { 6 / 22 } †		—	—	—	—	17	91	60	0	E. by S. 9	2nd 12h.	16 5th 14 . 51
South Kensington ..	123	92	30	—	—	—	—	5	73	90	0	E. by N. 7	2nd 12h.	11 2nd 11 . 3
7. ENGLAND, N.W.														
Carnforth	246	56	23	—	—	—	—	15	73	80	0	WSW. 8	4th 17h.	13 4th 17 . 8
Southport	80	62	48	—	—	4th	2	62	95	9	0	WNW. 11	4th 18h.	16 4th 17 . 45
Holyhead*	60	40	‡	—	—	4, 5	8	74	72	14	0	N. by W. 12	5th 5h.	15 4th 17 . 8
8. ENGLAND, S.W.														
Pendennis Castle§ ..	256	65	24	—	—	5th	8	49	98	13	0	NNE. 13	5th 14h.	17 5th 10 . 24
Plymouth	185	88	2	—	—	—	—	28	109	31	0	— 8	5th 14h.	14 5th 14 . 12
10. IRELAND, S.														
Quilty	100	40	‡	—	—	4th	13	65	53	13	24	— 13	4th 16h.	19 4th 13 . 37
Weaver Pt.	100	30	‡	—	—	4, 5	5	62	75	26	0	— 13	4th 16h	20 4th 15 . 52
11. ENGLISH CHANNEL.														
Scilly*	150	{ 32 / 19 }	‡	—	—	4, 5	12	47	72	37	0	NW. by N. 13	4th 21h.	17 4th 20 . 55

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.
** Above tops of trees.
‡ Standard mounting.
§ Direction from the Robinson Anemometer at Falmouth Observatory.
† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

FOURTEENTH WEEK—April 2nd to April 8th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
			Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	60	26	82·3	75·1	78·5	+ 0·5	19	− 1	24	− 1	4	0	0·42	11	− 9	4·8	+0·4	36	1014
Eastern.																			
1. SCOTLAND, EAST ...	65	24	83·3	73·6	78·2	0·0	24	− 2	34	+ 8	2	− 2	0·11	3	− 8	5·3	+0·7	40	1016
2. ENGLAND, N.E.	66	28	83·9	74·4	78·9	+ 0·1	36	+ 11	21	+ 2	3	− 1	0·18	5	− 5	6·9	+1·8	53	1018
3. ENGLAND, EAST ...	70	27	84·1	74·8	79·2	− 0·4	37	+ 3	19	− 1	3	0	0·36	9	0	6·8	+1·7	52	1018
4. MIDLAND COUNTIES ...	69	26	85·3	73·7	79·2	− 0·4	45	+ 9	25	+ 4	1	− 2	0·05	1	− 9	6·9	+2·2	53	1019
5. ENGLAND, S.E.	71	29	84·9	75·4	79·9	− 0·4	41	+ 4	16	+ 4	1	− 2	0·16	4	− 4	7·6	+2·6	59	1018
Western.																			
6. SCOTLAND, WEST ...	62	26	83·0	74·6	78·6	− 0·4	31	+ 5	20	+ 1	3	0	0·09	2	− 15	5·8	+0·8	45	1018
7. ENGLAND, N.W.	66	24	83·4	74·7	78·9	− 0·6	34	+ 6	20	+ 4	2	− 2	0·10	3	− 10	6·6	+2·4	50	1019
8. ENGLAND, S.W.	64	22	84·1	74·9	79·3	− 1·1	36	+ 1	18	+ 8	1	− 2	0·05	1	− 13	7·8	+2·7	61	1019
9. IRELAND, NORTH ...	58	28	83·0	74·8	78·7	− 1·0	30	0	19	+ 4	4	0	0·27	7	− 8	4·6	0·0	35	1018
10. IRELAND, SOUTH ...	58	28	83·7	74·9	79·1	− 1·5	34	− 4	18	+ 8	4	+ 1	0·41	10	− 6	4·6	−0·5	35	1021
11. ENGLISH CHANNEL ...	61	35	84·3	77·9	80·9	− 0·8	35	− 7	3	+ 1	2	− 1	0·08	2	− 9	8·6	+2·6	67	1019

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 6 Weeks, February 27th to April 8th, 1916.

0. SCOTLAND, NORTH ...	60	20	78·7	73·6	76·1	− 1·0	25	− 48	217	+ 35	28	− 1	3·32	84	− 61	2·7	−0·5	23	1010
Eastern.																			
1. SCOTLAND, EAST ...	65	18	78·4	72·8	75·5	− 1·6	32	− 68	270	+ 71	27	+ 3	3·67	93	+ 17	2·8	−0·9	24	1010
2. ENGLAND, N.E.	66	20	79·5	73·9	76·6	− 1·3	54	− 59	202	+ 44	31	+ 9	4·25	108	+ 48	3·2	−0·9	27	1008
3. ENGLAND, EAST ...	70	24	80·3	74·2	77·2	− 1·0	74	− 72	182	+ 12	29	+ 8	4·27	107	+ 54	3·0	−1·1	25	1007
4. MIDLAND COUNTIES ...	69	21	80·0	73·4	76·6	− 1·6	75	− 77	220	+ 49	25	+ 5	4·78	122	+ 62	2·7	−1·0	23	1008
5. ENGLAND, S.E.	71	18	81·0	74·6	77·7	− 1·1	99	− 56	160	+ 35	25	+ 6	4·75	120	+ 60	3·4	−0·7	29	1006
Western.																			
6. SCOTLAND, WEST ...	62	17	79·7	73·7	76·6	− 1·4	55	− 49	198	+ 52	20	− 4	1·76	45	− 73	3·2	−0·5	27	1010
7. ENGLAND, N.W.	66	8	79·7	74·2	76·8	− 1·5	57	− 58	185	+ 53	22	0	2·53	65	− 16	3·1	−0·4	26	1008
8. ENGLAND, S.W.	64	17	80·5	74·1	77·2	− 1·9	88	− 67	182	+ 78	23	+ 2	4·05	103	+ 10	4·0	−0·1	34	1007
9. IRELAND, NORTH ...	61	18	80·2	74·1	77·0	− 1·6	64	− 68	180	+ 58	24	− 3	2·15	56	− 38	3·0	−0·5	26	1010
10. IRELAND, SOUTH ...	61	20	80·9	74·5	77·6	− 1·9	88	− 84	152	+ 59	28	+ 5	2·65	66	− 37	3·4	−0·7	29	1010
11. ENGLISH CHANNEL ...	61	30	81·7	76·7	79·1	− 1·4	116	− 72	64	+ 27	28	+ 5	5·06	127	+ 50	4·4	−0·5	37	1006

THE YEAR.—Aggregates, &c., for the Period of 14 Weeks, January 2nd to April 8th, 1916.

0. SCOTLAND, NORTH ...	60	20	79·5	74·4	77·0	+ 0·3	127	0	395	− 81	75	+ 5	18·80	477	+ 77	2·0	−0·1	21	1007
Eastern.																			
1. SCOTLAND, EAST ...	65	7	79·4	73·7	76·5	0·0	128	− 33	514	− 21	63	+ 8	9·95	254	+ 65	2·5	−0·1	26	1008
2. ENGLAND, N.E.	66	20	80·5	74·9	77·7	+ 0·5	214	+ 31	354	− 72	59	+ 8	7·27	186	+ 48	2·6	−0·2	26	1010
3. ENGLAND EAST ...	70	24	80·9	75·1	78·0	+ 0·8	243	+ 20	334	−138	62	+12	8·79	221	+ 92	2·4	−0·6	24	1012
4. MIDLAND COUNTIES ...	69	21	80·8	74·7	77·7	+ 0·5	247	+ 5	379	− 92	57	+ 8	9·18	234	+ 78	2·3	−0·3	23	1012
5. ENGLAND, S.E.	71	15	81·5	75·7	78·6	+ 0·6	299	+ 41	279	− 76	61	+14	9·89	251	+ 90	2·7	−0·2	26	1013
Western.																			
6. SCOTLAND, WEST ...	62	17	80·3	74·9	77·6	+ 0·1	183	− 1	335	− 43	65	+ 5	10·62	270	− 52	2·4	−0·1	25	1010
7. ENGLAND N.W.	66	8	80·8	75·6	78·2	+ 0·5	224	+ 26	292	− 62	61	+ 6	8·97	228	+ 17	2·3	−0·2	23	1011
8. ENGLAND, S.W.	64	17	81·2	76·0	78·6	0·0	282	− 7	268	− 11	64	+10	12·06	309	+ 56	2·7	−0·2	27	1013
9. IRELAND NORTH ...	61	18	81·1	75·2	78·2	+ 0·1	236	− 6	302	− 12	68	+ 4	8·59	220	− 25	2·5	0·0	26	1010
10. IRELAND, SOUTH ...	61	20	81·9	76·0	78·9	− 0·2	309	− 28	231	− 8	76	+19	9·84	248	− 28	2·6	−0·3	26	1013
11. ENGLISH CHANNEL ...	61	30	82 3	78·1	80·2	+ 0·1	388	+ 4	85	− 22	71	+11	12·02	303	+ 91	3·1	−0·5	30	1013
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	m.m.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., April 13th, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 57

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 15. SUNDAY, APRIL 9TH, TO SATURDAY, APRIL 15TH, 1916. *Price 6d., Post free 7d.* *Annual Subscription Post Paid £1 10s. 0d.*

I.—THE FIFTEENTH WEEK OF 1916.

Weather conditions of a very changeable character were experienced over the country generally, the most stable feature being the bright sunshine, which was well in excess of the usual duration in most districts. There were many rain and hail showers, and a few local snow showers in the north. There was considerable variation in the afternoon temperature, a number of stations in England registering maxima from 288°·6 to 290°·8 A. (60° to 64° F.) from the 9th to the 13th, and nearly as high in Ireland, but there were many records below 283° A. (50° F.). The night values were much more uniform, there being very few instances of frost in the shade. For the whole period the mean results ranged round the normal, a little above in about half the districts, a little below in others. Precipitation was somewhat irregular in its distribution, Ireland North receiving 231 per cent. of the average, Scotland West 219, and England North-West 200, while England North-East had 56, and the English Channel only 45 per cent. There were no very heavy falls on any day, 21 mm. at Buxton on the 11th being the largest measurement. Thunderstorms occurred over Eastern England on the 12th, and there were a few sporadic storms on the 13th and 14th. Scotland North and Ireland North had normal sunshine records; elsewhere there was a daily excess of an hour or more, England South-West being 3 hours per day to the good. On various days there were many records of more than 10 hours. The temperature of the coastal sea water was variable, as much as 1°·5 A. (2°·7 F.) below the normal off Caithness, and 0°·5 A. (0°·9 F.) above the normal off Berwick.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		ENGLAND, E.		NORTH WALES.		ENGLAND, S.W.		IRELAND, S.	
	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.
		m/s		m/s		m/s		m/s		m/s
South	3	4·4	2	2·8	3	3·4	¼	2·1	3	3·4
North	4	5·2	5	2·5	3	3·8	6	4·5	2	1·8
West	7	7·7	7	4·5	7	7·6	6	9·6	6	6·8
East	0	—	0	3·5	0	—	1	1·5	1	0·5
Calm	0	—	0	—	0	—	0	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH AVERAGE.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year ... Warmth ...	Deficient	Moderate	Unusual	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
Rainfall ...	Heavy	Moderate	Light	Heavy	Moderate	Moderate	Heavy	Heavy	Moderate	Very heavy	Moderate	Moderate
Sunshine ...	Moderate	Abundant	Abundant	Abundant	Abundant	Abundant	Abundant	Abundant	Very abundant	Moderate	Abundant	Abundant

II.—THE SPRING SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SPRING. 7 weeks from Feb. 27th, 1916.	Warmth ...	0, 3, 4	0, 2, 5	1, 2, 4	0, 5, 2	0, 4, 3	0, 4, 3	0, 3, 4	0, 3, 4	0, 3, 4	0, 3, 4	0, 3, 4	0, 3, 4
	Rainfall ...	2, 2, 3	3, 3, 1	4, 1, 2	6, 1, 0	5, 1, 1	4, 3, 0	1, 2, 4	2, 2, 3	2, 3, 2	1, 3, 3	0, 4, 3	3, 4, 0
	Sunshine ...	0, 5, 2	1, 3, 3	2, 2, 3	2, 1, 4	2, 1, 4	2, 1, 4	2, 3, 2	2, 3, 2	2, 3, 2	0, 5, 2	1, 4, 2	2, 1, 4

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1° A. = increment of $\frac{9}{5}$° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(7940—19.) Wt. 79a—736. 450. 4/16. D & S. G. 17/ 36.

DISTRICTS AND NAMES OF ‡STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean	Earth 4 ft. Deviation from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.																							
p Baltasound	*31*																						*Baltasound.*
a Lerwick	54	47	10–15	32	10th	46·4	35·6	40·7	− 0·1	7	0·96	24	—	3·6	− 1·1	26	•	•	•	•	•	•	Deerness.
a Stornoway	51	51	10th	35	14, 15	46·9	37·1	41·8	− 0·7	7	1·02	26	+ 8	4·8	− 0·2	35	•	•	•	•	•	•	Stornoway.
a Castlebay, Barra Isd.	*37*	*49*	*12th*	*34*	*15th*	*47·4*	*38·3*	*42·6*	*− 1·2*	7	*0·76*	*19*	—	*7·1*	—	*52*	•	•	•	•	•	•	*Castlebay.*
a Wick	81	53	12th	31	10th	47·9	34·7	41·0	− 1·3	6	0·44	11	0	•	•	•	•	•	•	•	•	•	
p Strathpeffer	200	52	10, 12	35	15th	48·4	37·0	42·4	− 0·2	7	0·92	23	+ 12	5·3	+ 0·8	39	•	•	•	•	•	•	Strathpeffer.
p Glencarron	500	47	10, 15	32	14th	44·1	34·9	39·3	− 2·3	7	2·52	64	+ 31	•	•	•	•	•	•	•	•	•	
p Fort Augustus	68	51	10th	32	15th	48·1	36·3	41·9	− 0·8	7	1·03	26	+ 12	3·1	− 0·5	23	•	•	•	•	•	•	Fort Augustus.
p Fort William	171	53	12th	34	15th	49·9	37·0	43·1	− 0·8	7	1·73	44	+ 18	•	•	•	•	•	•	•	•	•	
1. SCOTLAND, E.																							
p Gordon Castle	101	56	10, 12	34	10th	50·7	36·0	43·0	− 0·2	2	0·14	4	− 6	6·9	—	50	3	23	41·8	−0·3	40·7	−0·5	Crathes.
a Nairn	82	56	10, 12	34	15th	50·4	36·3	43·0	+ 0·3	*1*	*0·33*	8	0	*6·1*	—	*45*	•	•	•	•	•	•	*Gordon Castle.*
a Aberdeen	46	58	10th	35	10th	52·6	38·0	45·0	+ 2·0	5	0·12	3	− 9	7·6	+ 2·7	55	•	•	•	•	•	•	Nairn.
a Balmoral	930	52	10, 12	32	10, 15	46·9	33·9	40·1	+ 0·7	3	0·16	4	− 10	•	•	•	2	29	•	•	41·1	−0·6	Aberdeen.
p Crieff	432	54	12th	31	10, 15	50·3	32·9	41·2	− 2·6	4	0·32	8	− 6	7·5	—	53	•	•	•	•	•	•	Balmoral.
																							Balruddery.
a Leith	18	53	12th	34	15th	51·4	37·3	44·0	− 0·3	5	0·28	7	0	•	•	•	•	•	•	•	•	•	
a West Linton	769	49	12, 15	29	15th	47·3	33·4	40·0	+ 0·3	4	0·94	24	—	*6·5*	—	*48*	4	25	•	•	•	•	*West Linton.*
p Marchmont	498	56	12th	31	15th	51·9	33·9	42·5	+ 0·5	5	0·42	11	− 1	8·6	+ 4·1	63	3	28	•	•	•	•	Marchmont.
a Edinburgh	*441*	*53*	*12th*	*33*	*15th*	*49·9*	*36·6*	*42·9*	—	*5*	*0·35*	*6*	—	7·5	—	55	0	32	•	•	•	•	Edinburgh.
6. *a*, SCOTLAND, W.																							
a Poltalloch	132	60	10, 12, 15	37	15th	48·6	40·6	44·4	+ 0·3	7	1·71	43	+ 27	•	•	•	•	•	•	•	•	•	
p Glasgow Observatory	180	52	12th	35	14, 15	48·9	37·9	43·1	− 0·6	6	0·94	24	+ 12	6·8	+ 2·8	50	1	30	•	•	•	•	Glasgow.
p Rothesay	170	52	12th	33	15th	48·3	36·3	42·0	− 2·4	7	1·60	41	+ 24	*6·8*	—	*50*	1	30	42·9	•	43·0	−0·3	*Rothesay.*
a Kilmarnock	90	53	12, 13	34	10th	50·6	37·7	43·8	− 0·1	7	1·07	27	—	*5·6*	—	*41*	•	•	42·6	•	•	•	*Kilmarnock.*
a Colmonell	170	52	9, 12	35	15th	49·6	37·0	43·0	− 1·3	6	1·53	39	+ 24	•	•	•	0	32	•	•	•	•	
a Dumfries	160	54	12th	35	15th	49·3	37·7	43·2	− 1·2	6	0·82	21	+ 8	*5·0*	—	*44*	3	26	42·0	•	42·2	•	*Dumfries.*
Eskdalemuir	*799*	*54*	*12th*	*32*	*10th*	*48·3*	*34·6*	*41·1*	—	*7*	*1·54*	*39*	—	*6·5*	—	*48*	•	•	•	•	•	•	*Eskdalemuir.*
p Cally, Gatehouse	120	57	10th	32	14, 15	52·7	35·2	43·6	− 0·2	6	2·00	51	+ 32	•	•	•	•	•	•	•	•	•	
b. I. OF MAN. *p* Douglas	277	54	12th	34	10th	49·0	37·9	43·2	− 1·2	6	1·56	40	+ 25	6·8	+ 1·1	50	1	30	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	59	12th	35	10, 14, 15	53·7	37·4	45·2	+ 2·5	3	0·20	5	− 6	5·9	—	43	3	26	41·2	−1·0	41·6	−0·5	Cockle Park.
a Tynemouth	71	57	12th	34	15th	52·3	37·3	44·4	+ 1·2	2	0·20	5	− 3	•	•	•	•	•	•	•	•	•	*Tynemouth.*
p Durham	336	59	12th	33	10, 15	53·3	36·1	44·3	+ 1·4	2	0·11	3	− 6	8·0	+ 3·7	59	3	27	•	•	•	•	Durham.
a, North ..‹ *p* Rounton	249	58	10, 12	31	10th	53·0	36·6	44·4	+ 1·7	3	0·19	5	− 5	•	•	•	5	22	43·4	•	•	•	Rounton.
a West Witton	*605*	*54*	*12th*	*34*	*15th*	*49·7*	*37·4*	*43·3*	—	*6*	*0·24*	*6*	—	•	•	•	2	30	42·1	•	38·9	•	*West Witton.*
p Scarborough†	100	62	13th	35	15th	56·3	39·0	47·2	+ 3·4	1	0·27	7	− 3	9·1	—	67	•	•	•	•	42·7	•	Scarborough.
p York	56	58	10, 12	35	10, 15	53·7	39·4	46·2	+ 1·5	4	0·08	2	− 8	6·6	+ 2·3	49	•	•	43·4	−0·6	42·9	−0·1	York.
a Spurn Head	26	54	10, 12	37	9, 10	51·1	38·7	44·6	+ 0·6	3	0·17	4	− 3	*6·0*	—	*45*	•	•	•	•	•	•	*Spurn Head.*
b, South ..‹ *a* Lincoln	58	60	10th	35	10, 15	54·1	39·5	46·5	+ 1·4	3	0·33	8	0	•	•	•	•	•	44·6	+0·6	43·4	+0·3	Lincoln.
a Fulbeck	180	59	10th	31	10th	53·0	38·0	45·1	+ 0·3	6	0·32	8	− 1	7·4	—	55	•	•	44·9	−1·2	43·2	−0·8	Rauceby.
														6·9	—	51	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																							
p Cromer	196	59	12th	36	10th	53·3	38·9	45·8	+ 1·9	3	0·18	5	—	7·1	—	53	•	•	•	•	•	•	Cromer.
p Little Massingham	280	57	13th	33	10th	53·0	36·7	44·5	− 0·2	4	0·78	20	+ 10	6·6	+ 1·7	49	4	23	•	•	•	•	Lit. Massingham.
a, North ..‹ *a* Yarmouth	13	58	12th	34	9th	51·9	36·7	43·9	+ 0·3	4	0·76	19	+ 10	6·8	—	51	•	•	45·6	−0·9	45·6	−0·1	Yarmouth.
a Norwich	93	58	10, 12	34	10th	53·1	38·4	45·4	+ 1·1	5	0·65	17	—	*6·3*	—	*47*	4	26	44·0	•	•	•	*Norwich.*
a Geldeston	37			34	10th		38·4			5	0·50	13	+ 4	6·2	+ 1·0	46	•	•	•	•	•	•	Geldeston.
p Cambridge	41	61	12th	32	10th	55·0	36·3	45·2	− 0·3	5	0·27	7	− 1	6·9	+ 1·8	51	3	26	45·5	−0·8	44·9	−0·4	Cambridge.
a Clacton-on-Sea	54	55	12th	35	9th	52·0	38·1	44·7	+ 0·2	4	0·39	10	—	6·8	—	51	1	30	45·1	−0·7	45·5	−0·4	Clacton.
b, South ..‹ *a* Rothamsted	424	56	10, 12	34	10th	52·6	37·9	44·9	+ 0·5	5	0·32	8	− 2	7·7	+ 2·9	57	4	26	43·0	•	•	•	Rothamsted.
p Tottenham	51	59	10th	38	10th	55·0	40·1	47·2	+ 1·5	5	0·36	9	—	7·2	—	54	0	31	•	•	45·4	+0·5	Tottenham.
4. MIDLAND COUNTIES.																							
a North ..‹ *a* Harrogate	479	55	10, 12	32	10th	50·9	36·6	43·4	+ 0·2	5	0·19	5	− 6	7·4	—	55	2	30	42·4	−0·1	42·3	0·0	Harrogate.
p Buxton	*987*	*56*	*10th*	*32*	*15th*	*48·0*	*35·9*	*41·7*	*+ 0·1*	*6*	*1·68*	*43*	*+ 25*	*5·3*	—	*40*	3	17	41·7	−1·0	40·3	−1·3	*Buxton.*
a Bawtry	65	59	10, 12	31	10th	53·3	37·3	44·9	− 0·1	4	0·31	8	0	7·7	—	57	0	32	43·5	+0·7	41·7	−0·2	Sheffield.
a Nottingham	82	60	10, 12	31	9th	53·9	36·9	45·0	+ 0·3	5	0·43	11	+ 2	6·9	+ 2·7	52	4	23	44·9	•	43·5	•	Worksop.
b, East ..‹ *p* Birmingham, Edgbsn.	535	62	10th	34	10th	53·3	39·1	45·9	+ 1·2	5	0·44	11	0	6·8	—	51	1	27	43·9	−0·1	41·5	−0·8	Nottingham.
a Raunds	203	61	12th	30	11th	54·7	34·7	44·2	− 0·4	4	0·27	7	—	7·1	—	53	2	27	42·6	−0·4	43·2	−0·5	Birmingham.
p Oxford	208	60	10th	37	10th	54·6	39·7	46·8	+ 1·1	*4*	*0·20*	5	− 3	*7·3*	—	*54*	4	21	43·4	•	43·3	•	*Raunds.*
										4	0·20	5	− 3	7·9	+ 3·1	59	2	28	•	•	•	•	Oxford.
a Cheadle	646	60	10th	32	10th	52·0	36·3	43·8	+ 0·1	5	0·78	20	+ 8	•	•	•	1	28	•	•	•	•	Cheadle.
p Shrewsbury	191	62	10th	33	12th	54·4	37·6	45·6	− 0·2	3	0·24	6	—	•	•	•	2	29	•	•	•	•	Shrewsbury.
c, West ..‹ *a* Hereford§	291	64	10th	33	10th	56·1	39·0	47·1	+ 1·4	5	0·25	6	− 4	*8·7*	—	*65*	2	22	45·4	•	43·8	•	*Malvern.*§
a Bath	66	59	10th	33	10th	54·3	40·1	46·9	+ 0·9	5	0·27	7	− 5	6·6	—	49	•	•	46·7	0·0	45·2	−0·8	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	59	10th	31	10th	53·7	36·7	44·8	+ 0·7	6	0·33	8	− 4	7·5	—	56	2	27	46·5	+0·2	46·0	+0·6	Worthing.
a Margate	53	57	12th	38	9th	51·9	40·7	46·0	+ 0·7	5	0·32	8	0	6·6	+ 2·1	49	3	23	45·8	•	45·3	—	Marlborough.
a Wisley, Surrey	150	59	10th	34	10th	54·4	38·4	46·0	− 0·6	4	0·31	8	—	6·1	+ 1·1	46	0	34	46·6	+1·6	46·1	+1·8	Margate.
p Salisbury (Wilton)	180	60	9, 10	33	10th	55·9	38·4	46·7	+ 0·6	4	0·14	4	− 10	7·4	—	55	3	23	44·8	−0·5	44·0	−0·8	Wisley.
a Tunbridge Wells	354	57	9, 10	32	10th	54·0	37·0	45·1	0·0	5	0·34	9	− 1	•	•	•	2	28	46·7	•	•	•	Salisbury.
														5·6	+ 0·5	42	4	24	44·9	−0·3	44·7	•	Tunbridge Wells.
a Dungeness	21	55	9th	35	10th	51·9	38·3	44·8	− 0·4	4	0·39	10	+ 1	•	•	•	•	•	•	•	•	•	Littlestone.
p Hastings	178	56	9th	37	15th	52·4	39·6	45·7	− 0·3	4	0·40	10	0	6·5	—	49	0	32	46·2	•	45·5	•	Hastings.
p Southampton	64	61	9th	37	9, 10	56·3	39·6	47·6	− 0·1	5	0·19	5	− 6	8·1	+ 2·8	61	2	25	•	•	•	•	Southampton.
a Ventnor	59	57	9th	39	10th	53·4	41·6	47·2	+ 0·2	4	0·09	10	0	8·1	+ 2·3	61	•	•	•	•	•	•	Ventnor.
LONDON. *p* Kew	18	58	10th	35	9th	54·0	39·0	46·1	0·0	4	0·26	7	− 2	6·9	+ 1·5	51	3	27	45·5	+0·3	45·1	+0·3	Kew.
a Westminster	*27*	*59*	*10th*	*36*	*9th*	*55·3*	*39·7*	*47·1*	*+ 0·9*	*6*	*0·46*	*12*	*+ 3*	*6·5*	*+ 3·0*	*49*	0	33	•	•	•	•	*Westminster.*
a Greenwich	*155*	*57*	*9, 11, 12*	*34*	*9th*	*55·3*	*38·9*	*46·7*	*+ 0·3*	*6*	*0·43*	*11*	*+ 2*	*6·2*	*+ 1·6*	*46*	3	25	•	•	•	•	*Greenwich.*
a Hampstead	*450*	*58*	*10th*	*33*	*15th*	*53·5*	*36·7*	*44·7*	—	*6*	*0·60*	*15*	—	*6·8*	—	*51*	6	23	•	•	•	•	*Hampstead.*
a Camden Square	*110*	*60*	*10th*	*37*	*9, 10, 15*	*56·0*	*39·0*	*47·1*	—	*6*	*0·53*	*13*	—	*6·6*	—	*49*	0	31	•	•	•	•	*Camden Square.*
7. *a*, ENGLAND, N.W.																							
p Aspatria	250	53	12th	34	15th	49·6	37·0	43·0	− 0·4	6	1·17	30	+ 17	7·1	—	53	•	•	•	•	•	•	Hoylake.
p Newton Rigg	559	55	12th	31	10th	50·0	35·9	42·6	− 0·1	6	0·69	18	+ 5	4·6	—	34	2	28	43·8	•	43·0	—	Aspatria.
p Stonyhurst	375	53	12th	35	14th	48·6	37·7	42·9	− 0·8	6	2·08	53	+ 37	6·1	+ 1·3	45	3	25	42·8	−0·6	41·2	−0·8	Newton Rigg.
p Blackpool	66	53	12th	38	15th	49·6	41·1	45·2	+ 0·7	6	1·14	29	+ 18	5·5	+ 0·6	41	1	30	•	•	•	•	Stonyhurst.
a Southport	*37*	*54*	*10th*	*39*	*15th*	*49·9*	*41·1*	*45·3*	*+ 0·7*	*6*	*1·24*	*31*	*+ 20*	*6·6*	—	*42*	0	32	46·3	+1·1	44·4	+0·1	43·8	*Southport.*
a Liverpool (Bidston)	188	56	12th	38	10th	50·3	40·1	45·0	− 0·1	7	0·64	16	+ 6	*7·0*	—	*52*	•	•	•	•	•	•	*Liverpool.*
a Hawarden Bridge	22	60	10, 12	34	9th	54·4	40·4	47·1	+ 0·9	6	0·35	9	+ 1	*4·7*	—	*35*	1	30	42·9	−0·2	42·7	−0·9	*Manchester (City)*
p Manchester (Whit. Pk.)	125	57	10th	34	10th	51·3	39·6	45·2	− 0·2	6	0·38	25	+ 14	*3·4*	*0·0*	*25*	•	•	•	•	•	•	" (*Whit. Park*)
b NORTH WALES.																							
p Llandudno	71	54	12th	35	10th	49·6	40·9	45·0	− 0·8	5	0·67	17	+ 6	7·7	+ 2·8	*57*	•	•	•	•	•	•	Llandudno.
Holyhead	15	55	12th	39	9, 10	51·4	41·0	46·0	+ 0·6	5	0·49	12	0	*7·7*	—	*57*	•	•	•	•	•	•	*Holyhead.*
p Bettws-y-Coed	148	58	12th	31	10th	52·9	38·7	45·5	0·0	6	1·05	27	—	5·8	—	43	•	•	43·6	+0·2	44·0	0·0	Bettws-y-Coed.
														6·0	—	45	•	•	•	•	•	•	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	Bright Sunshine. Hours per Day. Daily Mean	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														6·5	—	49	•	•					
a Llangammarch Wells	550	59	10th	28	10th	51·7	37·5	44·3	+ 0·6	6	1·26	32	—	7·5	—	56	1	21	44·1	+1·4	43·6	−0·5	Llangammarch.
a Pembroke	149	56	9, 10	38	9, 10	48·6	41·7	45·0	− 0·5	4	0·40	10	− 2	7·8	+ 2·2	58	•	•	•	•	•	•	Pembroke.
p Cardiff	202	58	9th	38	10th	52·3	39·9	45·8	− 1·2	5	0·69	18	+ 3	*8·6*	—	*64*	1	28	45·7	+0·7	44·6	+0·4	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	57	9th	37	10th	52·4	41·0	46·4	− 0·3	4	0·45	11	− 2	*7·6*	—	*57*	0	34	•	•	•	•	*Clifton.*
a Shaftesbury	722	58	10th	36	10th	52·6	37·9	44·9	+ 0·4	6	0·45	11	− 2	•	•	•	•	•	46·6	•	44·8	•	Shaftesbury.
a Arlington	613	55	10th	32	10th	50·6	38·4	44·2	− 0·4	5	1·05	27	+ 9	•	•	•	•	•	•	•	•	•	Arlington.
a Newquay	*190*	*54*	*10th*	*35*	*10th*	*50·6*	*41·1*	*45·6*	− *1·2*	*6*	*0·33*	*8*	− *4*	8·7	+ 3·2	65	•	•	48·3	•	46·5	•	Newquay.
a Cullompton	202	62	10th	32	10th	55·0	39·9	47·1	+ 1·1	5	0·49	12	− 1	8·4	+ 3·5	63	2	27	47·4	•	•	•	Cullompton.
a Portland Bill	19	53	9th	40	10th	51·1	42·4	46·5	− 2·0	5	0·13	3	—	*8·4*	—	*63*	•	•	•	•	•	•	*Weymouth.*
p Plymouth	116	56	9th	39	10th	53·3	42·6	47·7	+ 0·6	5	0·43	11	− 2	8·9	+ 3·5	67	•	•	47·3	−0·1	46·3	•	Plymouth.
a Falmouth	167	57	10th	38	9th	53·3	41·1	46·9	+ 0·1	5	0·39	10	− 6	9·9	+ 4·3	74	0	32	50·4	•	48·0	•	Falmouth.
9. IRELAND, N.																							
a Malin Head	208	53	10th	36	14th	47·0	38·7	42·7	− 1·7	7	1·15	29	+ 18	*6·0*	—	*44*	•	•	•	•	•	•	*Malin Head.*
a, West .. *a* Blacksod Point ..	?	51	12th	35	14th	48·6	39·4	43·8	− 2·2	7	1·35	34	+ 17	•	•	•	•	•	•	•	•	•	
p Markree Castle ..	122	57	10th	32	10th	51·1	37·0	43·7	− 0·9	6	1·77	45	+ 29	4·2	− 0·4	31	3	29	45·2	•	44·3	•	Markree Castle.
a Birr Castle	175	56	9th	35	10, 14	52·7	37·0	44·5	− 0·5	6	0·79	20	+ 8	*6·0*	+ *1·2*	*45*	•	•	•	•	•	•	*Birr Castle.*
b, East .. *p* Armagh ..	196	58	10th	34	14th	53·3	37·0	44·8	+ 0·1	6	1·05	27	+ 15	5·5	+ 1·0	40	1	30	44·4	−0·6	43·8	−1·0	Armagh.
a Donaghadee	101	55	12th	34	9th	49·9	37·3	43·3	− 1·5	6	0·94	24	+ 12	•	•	•	•	•	•	•	•	•	
														•	•	•	1	30	45·3	−0·4	45·2	−0·5	Trinity Coll.
														6·3	+ 1·1	47	2	24	•	•	•	•	Phœnix Park.
10. IRELAND, S.														•	•	•	0	33	•	•	•	•	Dublin City.
p Dublin, City	47	56	10, 12	36	14th	52·6	39·4	45·7	− 1·0	6	0·53	13	+ 2	•	•	•	•	•	•	•	•	•	
a, East .. *a* Kilkenny	212	57	12th	28	9th	53·3	36·9	44·7	− 0·9	6	0·67	17	+ 4	•	•	•	•	•	•	•	•	•	
a Waterford	20	59	12th	35	10th	54·6	39·9	46·9	+ 1·1	4	0·62	16	+ 1	•	•	•	•	•	•	•	•	•	
a Seskin, Carrick-on-Suir	*541*	*57*	*12th*	*31*	*10th*	*54·0*	*36·1*	*44 6*	—	*6*	*0·62*	*16*	—	*6·7*	—	*50*	1	30	•	•	•	•	*Seskin.*
a Birr Castle	175	56	9th	35	10, 14	52·7	37·0	44·5	− 0·5	6	0·79	20	+ 8	6·0	+ 1·2	45	•	•	•	•	•	•	Birr Castle.
a Foynes	50	54	12, 15	38	14th	54·0	38·0	45·6	+ 0·5	6	0·76	19	—	•	•	•	•	•	•	•	•	•	
b, West .. *a* Cahir	199	58	12th	32	10th	54·0	39·9	47·3	+ 0·8	6	1·19	30	+ 9	•	•	•	•	•	•	•	•	•	
a Killarney	174	59	9th	37	10th	54·9	40·3	47·3	+ 0·8	6	1·19	30	+ 9	•	•	•	•	•	•	•	•	•	
a Valencia	30	53	9, 12	41	10th	51·1	42·6	46·7	− 0·6	7	0·87	22	− 2	5·8	+ 0·7	43	•	•	•	•	•	•	Valencia.
a Roche's Point	32	57	12th	36	9th	53·4	40·1	46·4	− 0·4	7	0·50	13	− 3	6·4	—	48	•	•	•	•	•	•	Ballinacurra
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	55	10th	43	10, 14, 15	52·9	44·0	48·2	+ 0·2	5	0·28	7	− 5	9·5	+ 3·8	71	•	•	•	•	•	•	Scilly.
a Jersey, St. Aubins ..	25	54	9th	40	9th	52·7	42·9	47·6	− 0·4	2	0·17	4	− 8	8·0	+ 1·9	60	•	•	•	•	•	•	St. Heliers.
a Guernsey (Villa Carey)	180	58	10th	40	9th	53·6	43·6	48·4	+ 0·5	4	0·18	5	− 9	7·7	+ 1·6	58	0	33	49·1	+1·0	47·5	0·0	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, April 15th, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Above Ground.	Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.	Date and Hour.	Highest Gust with Date and Time.
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	m/s.		m/s. d. h. m.
1. SCOTLAND, E.														
Dyce	305	75	‡15**	—	—	—	—	59	93	16	0	NW. by W. 9	9th 11h.	20 9th 10 . 3
Aberdeen*	153	105	‡37 / 52†	—	—	9, 11, 13 to 15	28	64	70	6	0	NW. 14	15th 10h.	25 9th 13 . 5
Edinburgh	485	39	31	—	—	12, 14	6	153	9	0	0	SSW. 13	12th 4h.	21 12th 3 . 40
6. SCOTLAND, W.														
Eskdalemuir	850	50	22	—	—	9 to 15	33	95	33	4	0	W. by N. 14	14th 5h.	24 14th 14 . 34
Paisley	188	81	52	—	—	9th	1	82	83	2	0	NNW. 11	9th 14h.	23 14th 12 . 56
2. ENGLAND, N.E.														
Alnwick Castle	340	70	17	—	—	—	—	34	107	27	—	W. by N. 7	12th 15h.	18 12th 18 . 2
South Shields	72	61	12	—	—	13th	4	86	70	8	0	W. by N. 13	13th 8h.	23 12th 14 . 17
Spurn Head	63	40	‡	—	—	12 to 15	35	96	31	6	0	? 13	14th 16h.	24 12th 15 . 55
3. ENGLAND, E.														
Gorleston	52	42	‡	—	—	15th	2	77	82	5	2	— 12	15th 16h.	17 15th 12 . 17
Shoeburyness	103	90	‡	—	—	12, 14, 15	7	104	56	0	1	NW. 13	15th 10h.	22 14th 12 . 54
4. MIDLAND COUNTIES.														
Benson	270	84	‡	—	—	12, 13, 15	7	103	37	21	0	WSW. 12	12th 18h.	21 15th 13 . 7
5. ENGLAND, S.E.														
Dover	271	40	‡	—	—	11, 12, 14, 15	15	68	71	14	0	— 16	12th 10h.	23 12th 10 . 30
Warlingham	642	33	‡	—	—	—	—	13	101	54	0	— 7	12th 9h.	16 12th 10 . 36
Brighton	261	53	6	—	—	—	—	84	47	0	37	— 10	12th 9h.	21 14th 14 . 44
Kew Observatory ..	82	65	6 / 22†	—	—	—	—	70	79	19	0	W. by S. 9	13th 9h.	21 15th 13 . 47
South Kensington ..	123	92	30	—	—	—	—	10	120	38	—	W. 7	13th 11h.	14 13th 11 . 14
7. ENGLAND, N.W.														
Carnforth	246	56	23	—	—	14th	2	86	69	11	0	WSW. 12	14th 12h.	17 13th 13 . 36
Southport	80	62	48	13, 14	5	9, 11 to 15	97	59	7	0	0	W. by S. 18	13th 12h.	26 14th 14 . 31
Holyhead*	60	40	‡	—	—	11 to 15	78	65	21	4	0	NW. by W. 17	13th 22h.	22 13th 22 . 6
8. ENGLAND, S.W.														
Pendennis Castle§ ..	256	65	24	12th	2	11 to 15	29	100	30	5	2	WSW. 18	12th 7h.	27 12th 18 . 8
Plymouth	185	88	2	—	—	—	—	97	57	14	0	— 11	12th 7h.	19 13th 23 . 18
10. IRELAND, S.														
Quilty	100	40	‡	—	—	10 to 14	62	44	44	2	16	— 17	13th 17h.	27 13th 16 . 42
Weaver Pt.	160	30	‡	—	—	12 to 14	20	101	43	4	0	— 14	13th 12h.	27 13th 16 . 33
11. ENGLISH CHANNEL.														
Scilly*	150	32 / 19	‡	13th	1	11 to 15	85	30	36	16	0	WNW. 18	13th 19h.	26 13th 15 . 37

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer. ** Above tops of trees.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory.
† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

FIFTEENTH WEEK—April 9th to April 15th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L.
			Means of				Accumulated Number of Day-Degrees.												
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	53	31	81·6	75·3	78·3	− 0·2	15	− 8	23	+ 1	7	+ 2	1·23	31	+ 13	4·2	−0·4	31	1001
Eastern.																			
1. SCOTLAND, EAST ...	58	29	83·1	74·8	78·8	+ 0·1	31	+ 1	19	− 4	4	0	0·34	9	− 2	7·2	+2·5	53	1003
2. ENGLAND, N.E.	62	31	84·9	76·3	80·4	+ 1·1	40	+ 13	11	− 5	3	0	0·21	5	− 4	7·3	+2·3	54	1007
3. ENGLAND, EAST ...	61	32	84·8	76·3	80·3	+ 0·3	40	+ 3	11	− 4	4	0	0·47	12	+ 3	6·9	+1·8	52	1009
4. MIDLAND COUNTIES ...	64	30	85·1	76·2	80·4	+ 0·4	42	+ 3	12	− 5	5	+ 2	0·34	9	− 1	7·2	+2·5	54	1010
5. ENGLAND, S.E.	61	31	85·1	76·8	80·8	0·0	41	+ 1	9	− 1	5	+ 2	0·31	8	0	7·0	+1·9	52	1011
Western.																			
6. SCOTLAND, WEST ...	57	32	82·8	76·1	79·3	+ 0·8	28	− 2	12	− 4	6	+ 2	1·40	36	+ 20	6·8	+1·7	50	1005
7. ENGLAND, N.W.	60	31	83·4	77·0	80·1	+ 0·1	31	− 1	8	− 4	6	+ 3	0·93	24	+ 12	6·0	+1·3	45	1011
8. ENGLAND, S.W.	62	28	84·2	77·6	80·7	− 0·1	35	− 3	5	− 3	5	+ 1	0·57	15	+ 2	8·2	+2·9	62	1014
9. IRELAND, NORTH ...	58	32	83·2	76·2	79·6	− 0·6	31	− 3	12	+ 1	6	+ 2	1·18	30	+ 17	4·9	+0·1	34	1009
10. IRELAND, SOUTH ...	59	28	84·8	77·1	80·8	− 0·1	39	− 2	7	− 1	6	+ 2	0·78	20	+ 6	6·1	+0·9	46	1016
11. ENGLISH CHANNEL ...	58	40	84·7	79·4	81·9	− 0·1	43	− 1	0	− 1	4	0	0·21	5	− 6	8·4	+2·2	63	1017

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 7 Weeks, February 27th to April 15th, 1916.

0. SCOTLAND, NORTH ...	60	20	79·1	73·8	76·4	− 0·9	40	− 56	240	+ 36	35	+ 1	4·55	115	− 48	2·9	−0·5	24	1009
Eastern.																			
1. SCOTLAND, EAST ...	65	18	79·1	73·1	76·0	− 1·4	63	− 67	289	+ 67	31	+ 3	4·01	102	+ 15	3·4	−0·5	29	1009
2. ENGLAND, N.E. ...	66	20	80·2	74·2	77·1	− 1·0	94	− 46	213	+ 39	34	+ 9	4·46	113	+ 44	3·7	−0·5	31	1008
3. ENGLAND, EAST ...	70	24	81·0	74·5	77·6	− 0·8	114	− 69	193	+ 8	33	+ 8	4·74	119	+ 57	3·5	−0·7	29	1007
4. MIDLAND COUNTIES ...	69	21	80·8	73·8	77·2	− 1·2	117	− 74	232	+ 44	30	+ 7	5·12	131	+ 61	3·4	−0·4	28	1008
5. ENGLAND, S.E.	71	18	81·6	74·9	78·2	− 0·9	140	− 55	169	+ 34	30	+ 8	5·06	128	+ 60	3·9	−0·3	32	1007
Western.																			
6. SCOTLAND, WEST ...	62	17	80·2	74·0	77·0	− 1·2	83	− 51	210	+ 48	26	− 2	3·16	81	− 53	3·7	−0·2	31	1009
7. ENGLAND, N.W.	66	8	80·2	74·6	77·3	− 1·2	88	− 59	193	+ 49	28	+ 3	3·46	89	− 4	3·5	−0·2	29	1008
8. ENGLAND, S.W.	64	17	81·0	74·6	77·7	− 1·6	123	− 70	187	+ 75	28	+ 3	4·62	118	+ 12	4·6	+0·3	38	1008
9. IRELAND, NORTH ...	61	18	80·6	74·4	77·4	− 1·4	95	− 71	192	+ 59	30	− 1	3·33	86	− 21	3·3	−0·4	27	1009
10. IRELAND, SOUTH ...	61	20	81·4	74·8	78·0	− 1·7	127	− 86	159	+ 58	34	+ 7	3·43	86	− 31	3·8	−0·4	32	1010
11. ENGLISH CHANNEL ...	61	30	82·1	77·1	79·5	− 1·2	159	− 73	64	+ 26	32	+ 5	5·27	132	+ 44	4·9	−0·2	42	1007

THE YEAR.—Aggregates, &c., for the Period of 15 Weeks, January 2nd to April 15th, 1916.

0. SCOTLAND, NORTH ...	60	20	79·6	74·5	77·0	+ 0·2	142	− 8	418	− 80	82	+ 7	20·03	508	+ 90	2·2	−0·1	22	1006
Eastern.																			
1. SCOTLAND, EAST ...	65	7	79·7	73·7	76·7	+ 0·1	159	− 32	533	− 25	67	+ 8	10·29	263	+ 63	2·8	0·0	28	1008
2. ENGLAND, N.E.	66	20	80·8	75·0	77·9	+ 0·6	254	+ 44	365	− 77	62	+ 8	7·48	191	+ 44	2·9	−0·1	29	1010
3. ENGLAND EAST ...	70	24	81·2	75·1	78·1	+ 0·7	283	+ 23	345	−142	66	+12	9·26	233	+ 95	2·7	−0·4	27	1012
4. MIDLAND COUNTIES ...	69	21	81·1	74·8	77·9	+ 0·5	289	+ 8	391	− 97	62	+10	9·52	243	+ 77	2·6	−0·1	25	1012
5. ENGLAND, S.E.	71	15	81·7	75·8	78·7	+ 0·6	340	+ 42	288	− 77	66	+16	10·20	259	+ 90	2·9	−0·1	29	1012
Western.																			
6. SCOTLAND, WEST ...	62	17	80·5	75·0	77·7	+ 0·1	211	− 3	347	− 47	71	+ 7	12·02	306	− 32	2·7	0·0	27	1010
7. ENGLAND N.W.	66	8	80·9	75·7	78·3	+ 0·5	255	+ 25	300	− 66	67	+ 9	9·90	252	+ 29	2·6	0·0	25	1011
8. ENGLAND, S.W.	64	17	81·4	76·1	78·7	0·0	317	− 10	273	− 14	69	+11	12·63	324	+ 58	3·1	0·0	30	1013
9. IRELAND NORTH ...	61	18	81·2	75·3	78·2	− 0·1	267	− 9	314	− 11	74	+ 6	9·77	250	− 8	2·7	0·0	27	1010
10. IRELAND, SOUTH ...	61	20	82·1	76·0	79·0	− 0·2	348	− 30	238	− 9	82	+21	10·62	268	− 22	2·8	−0·3	28	1013
11. ENGLISH CHANNEL ...	61	30	82·5	78·2	80·3	+ 0·1	431	+ 3	85	− 23	75	+11	12·23	308	+ 85	3·4	−0·3	36	1013
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	m.m.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., April 19th, 1916.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 61

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 16. SUNDAY, APRIL 16TH, TO SATURDAY, APRIL 22ND, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE SIXTEENTH WEEK OF 1916.

During the greater part of the week the weather continued of a showery and rainy type. Local thunderstorms were reported on almost every day from some part of England or Ireland. They were often accompanied by hail, but the precipitation was in no case heavy. Mean temperature was about 1° A. (2° F.) below the average over the whole country, and this was associated with low afternoon maxima, 286° A. (55° F.) being exceeded at few stations. Screen temperatures fell to the freezing point at a small number of stations scattered about the country. In most cases these minima occurred on the night of the 15th–16th. The showery nature of the week resulted in a decided excess both of total precipitation and of the number of rain days in all districts except the English Channel and Ireland S. In the east of Scotland the fall was about four times the normal, and both in this district and in the north of Ireland rain fell on every day of the week. Very few falls exceeded 25 mm. in one day. Aberdeen reported practically continuous light rain from 3 p.m. on Sunday to 3 p.m. on Friday. Sunshine was deficient in all districts but especially in the east of the country where the deficiency amounted to three or more hours per day. A sun pillar was observed at Oxford on Saturday evening, and a brilliant lunar rainbow in which the colouring was visible at Seskin, Carrick-on-Suir, on Sunday night. Sea temperature was generally a little below the normal, but slightly in excess off Berwick and the south-west of Ireland.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		ENGLAND, E.		NORTH WALES.		ENGLAND, S.W.		IRELAND, S.	
	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.
		m/s		m/s		m/s		m/s		m/s
South	2	6·1	3	1·2	2	3·8	1	3·6	—	—
North	5	3·4	3	1·9	5	4·1	6	5·6	—	—
West	1	1·5	5	3·0	6	6·9	6	10·5	—	—
East	6	3·6	1	0·8	1	0·6	1	2·1	—	—
Calm	0	—	0	—	0	—	0	—	—	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH AVERAGE.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with average for the time of year ...	Warmth ...	Moderate	Deficient	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient
	Rainfall ...	Heavy	Very heavy	Very heavy	Heavy	Heavy	Heavy	Heavy	Very heavy	Heavy	Very heavy	Moderate	Moderate
	Sunshine ...	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Scanty	Moderate	Scanty	Moderate	Scanty

II.—THE SPRING SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SPRING. 8 weeks from Feb. 27th, 1916.	Warmth ...	0, 4, 4	0, 2, 6	1, 3, 4	0, 6, 2	0, 5, 3	0, 5, 3	0, 4, 4	0, 4, 4	0, 4, 4	0, 4, 4	0, 4, 4	0, 3, 5
	Rainfall ...	3, 2, 3	4, 3, 1	5, 1, 2	7, 1, 0	6, 1, 1	5, 3, 0	2, 2, 4	3, 2, 3	3, 3, 2	2, 3, 3	0, 5, 3	3, 5, 0
	Sunshine ...	0, 5, 3	1, 3, 4	2, 2, 4	2, 1, 5	2, 1, 5	2, 1, 5	2, 3, 3	2, 3, 3	2, 4, 2	0, 5, 3	1, 5, 2	2, 1, 5

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1° A. = increment of $\frac{9}{5}$° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(7985—19.) Wt. 79a—736. 450. 4/16. D & S. G. 17/ 36.

III —DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE. 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.	*31*																						
a, Islands.. *p Baltasound*	54	47	19th	32	22nd	45·4	37·1	41·1	- 0·4	4	1·14	29	—	2·1	- 2·9	15	•	•	•	•	•	•	*Baltasound.*
a Lerwick	51	51	17th	33	22nd	48·1	38·9	43·3	- 0·1	7	1·46	37	+ 20	3·9	- 1·5	27	•	•	•	•	•	•	Dearness.
a Stornoway	51	51	17th	33	22nd	48·1	38·9	43·3	- 0·1	7	1·46	37	+ 20	3·9	- 1·5	27	•	•	•	•	•	•	Stornoway.
a Castlebay, Barra Isd.	*37*	*49*	*16–18*	*35*	*22nd*	*47·7*	*40·0*	*43·7*	*- 1·8*	*5*	*1·06*	*27*	—	*4·3*	—	*30*							*Castlebay.*
a Wick	81	47	17th	33	16th	44·7	37·9	41·1	- 2·2	6	0·72	18	+ 7	•	•	•	•	•	•	•	•	•	
p Strathpeffer	200	52	17th	35	22nd	48·7	38·4	43·3	- 0·4	7	0·81	21	+ 11	1·4	- 3·5	10	•	•	•	•	•	•	Strathpeffer.
b, Main-land. *p* Glencarron	500	48	16th	33	22nd	44·7	36·9	40·6	- 1·9	7	1·82	46	+ 15	•	•	•	•	•	•	•	•	•	
p Fort Augustus	68	52	17th	35	22nd	47·0	38·7	42·7	- 1·0	7	1·42	36	+ 23	2·0	- 1·9	14	•	•	•	•	•	•	Fort Augustus.
p Fort William	171	53	17th	34	22nd	48·9	38·6	43·5	- 1·5	7	1·71	43	+ 19	•	•	•	•	•	•	•	•	•	
1. SCOTLAND, E.																							
p Gordon Castle	101	52	17th	33	16th	46·7	37·4	41·8	- 2·2	7	2·02	51	+ 41	0·4	—	3	2	20	42·4	-0·8	41·5	-0·5	Crathes.
a Nairn	82	55	17th	34	16th	48·4	37·7	42·8	- 1·1	7	1·02	26	+ 18	*0·8*	—	*6*	•	•	•	•	•	•	*Gordon Castle.*
a Aberdeen	46	52	17th	34	16th	47·0	38·4	42·5	- 1·3	6	1·73	44	+ 33	2·3	—	16	•	•	•	•	•	•	Nairn.
a Balmoral	930	48	17th	28	16th	43·4	33·9	38·4	- 2·2	7	1·54	39	+ 26	1·1	- 4·2	8	•	•	•	•	41·8	-0·6	Aberdeen.
p Crieff	432	54	17th	33	16th	49·1	36·0	42·2	- 2·5	7	1·31	33	+ 20	•	•	•	•	•	•	•	•	•	
a Leith	18	53	17th	37	16, 17	47·3	38·9	42·9	- 2·4	7	1·38	35	+ 28	1·1	—	8	1	26	•	•	•	•	Balmoral.
a West Linton	769	48	16, 18	30	16th	44·1	35·4	39·5	- 1·2	7	2·89	73	—	•	•	•	•	•	•	•	•	•	Balruddery.
p Marchmont	498	48	17, 18	32	16th	43·9	35·7	39·6	- 3·2	7	1·72	44	+ 32	•	•	•	•	•	•	•	•	•	
a Edinburgh	*441*	*51*	*16th*	*35*	*20th*	*45·9*	*38·3*	*41·9*	—	7	*2·04*	*52*	—	*1·0*	—	*7*	1	25	•	•	•	•	*West Linton.*
														0·4	- 4·4	3	1	27	•	•	•	•	Marchmont.
														1·2	—	9	0	33	•	•	•	•	Edinburgh.
6. *a*, SCOTLAND, W.																							
a Poltalloch	132	51	20th	37	22nd	49·4	40·1	44·5	- 0·7	6	2·17	55	+ 40	•	•	•	•	•	•	•	•	•	
p Glasgow Observatory	180	51	17th	37	20th	48·3	40·0	44·0	- 0·9	7	1·39	35	+ 23	1·4	- 2·9	10	0	34	•	•	•	•	Glasgow.
p Rothesay	170	50	16, 17, 22	33	16th	48·7	38·4	43·3	- 2·2	7	1·78	45	+ 28	*1·7*	—	*12*	0	34	44·9	•	43·7	-0·4	*Rothesay.*
a Kilmarnock	90	52	16, 22	37	20th	49·7	40·0	44·6	- 0·3	7	1·45	37	—	*1·6*	—	*11*	•	•	43·6	•	43·0	•	*Kilmarnock.*
a Colmonell	170	52	16th	36	16th	48·6	39·4	43·8	- 1·4	6	1·02	26	+ 12	•	•	•	1	30	•	•	•	•	
a Dumfries	160	52	18th	35	16th	48·9	39·0	43·7	- 1·8	7	0·57	15	+ 2	*2·3*	—	*16*	2	26	43·3	•	43·0	•	*Dumfries.*
Eskdalemuir	*799*	*51*	*18th*	*25*	*16th*	*46·1*	*35·4*	*40·5*	—	7	*1·69*	*43*	—	*1·7*	—	*12*	•	•	•	•	•	•	*Eskdalemuir.*
p Cally, Gatehouse	120	51	22nd	32	22nd	48·4	37·6	43·2	- 1·6	6	1·47	37	+ 19	•	•	•	•	•	•	•	•	•	
b, I. OF MAN. *p* Douglas	277	52	16th	37	16, 22	48·3	39·4	43·6	- 1·5	5	1·03	26	+ 11	3·1	- 3·0	22	1	29	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	51	16, 17	30	16th	46·7	38·3	42·3	- 1·3	7	1·20	31	+ 20	0·3	—	2	2	26	42·7	-0·4	42·3	-0·6	Cockle Park.
a Tynemouth	71	50	17th	35	16th	46·7	38·7	42·5	- 1·6	7	0·71	18	+ 9	•	•	•	•	•	•	•	•	•	Tynemouth.
p Durham	336	51	17, 22	30	16th	47·9	37·6	42·5	- 1·3	7	1·26	32	+ 23	1·1	- 3·4	8	1	22	•	•	•	•	Durham.
a, North *p* Rounton	249	55	18th	31	16th	49·4	37·9	43·4	- 0·3	7	1·04	26	+ 16	•	•	•	2	23	44·0	•	•	•	Rounton.
a West Witton	*605*	*52*	*18th*	*33*	*16th*	*49·1*	*38·1*	*43·3*	—	7	*0·73*	*19*	—	•	•	•	1	27	43·3	•	40·0	•	*West Witton.*
p Scarborough†	100	52	18th	37	16th	49·1	40·4	44·5	0·0	5	0·42	11	+ 1	2·2	—	16	•	•	•	•	43·6	•	Scarborough.
p York	56	53	17, 18	35	16th	51·0	40·0	45·2	- 0·8	6	0·67	17	+ 7	2·1	- 2·5	15	•	•	44·6	-0·6	43·7	-0·2	York.
a Spurn Head	26	51	16, 17	36	16th	49·0	39·7	44·1	- 0·8	6	0·87	22	+ 15	*1·2*	—	*9*	•	•	•	•	•	•	*Spurn Head*
b, South *a* Lincoln	58	53	18th	33	16th	50·3	40·0	44·9	- 1·3	6	1·25	32	+ 23	•	•	•	•	•	45·0	-0·1	44·1	+0·2	Lincoln.
a Fulbeck	180	52	17, 21	33	16th	49·6	38·3	43·7	- 2·3	7	1·20	30	+ 21	1·5	—	11	0	32	45·7	-2·7	44·0	-1·0	Rauceby.
														1·7	—	12	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																							
p Cromer	196	55	16th	36	16th	49·7	39·4	44·3	0·0	7	0·67	17	—	1·9	—	14	•	•	•	•	•	•	Cromer.
a, North *p* Little Massingham	280	52	16, 17, 21	31	16th	49·9	38·1	43·7	- 2·0	5	0·57	14	+ 4	1·6	- 3·6	12	3	24	•	•	•	•	Lit. Massingham.
a Yarmouth	13	54	16, 17	35	17th	50·1	39·1	44·3	- 0·3	5	0·71	18	+ 9	2·3	—	17	•	•	46·4	-2·5	46·4	-0·7	Yarmouth.
a Norwich	93	56	16th	33	16th	52·1	39·6	45·6	+ 0·4	6	0·85	22	—	*2·1*	—	*15*	2	25	45·3	•	•	•	*Norwich.*
a Geldeston	37			32	16th	—	39·3			6	0·80	20	+ 11	2·1	- 3·3	15	•	•	•	•	•	•	Geldeston.
p Cambridge	41	57	17th	30	16th	52·3	38·9	45·3	- 1·4	5	0·79	20	+ 11	1·3	- 4·1	9	2	30	46·1	-1·6	45·6	-0·7	Cambridge.
a Clacton-on-Sea	54	54	17th	34	16th	50·9	39·6	45·0	- 0·6	4	0·99	15	—	2·4	—	17	1	29	45·9	-1·4	46·0	-1·0	Clacton.
b, South *a* Rothamsted	424	52	19, 21	31	21st	50·6	37·3	43·6	- 2·1	5	0·64	16	+ 7	2·6	- 2·5	19	2	24	43·5	•	•	•	Rothamsted.
p Tottenham	51	56	17th	36	16th	52·1	40·6	46·1	- 0·7	5	0·41	10	—	2·4	—	17	0	32	•	•	46·1	+0·1	Tottenham.
4. MIDLAND COUNTIES.																							
a North *a* Harrogate	479	52	18th	34	16th	47·6	38·4	42·8	- 1·4	7	1·04	27	+ 16	2·3	—	16	1	29	43·3	-0·3	43·2	-0·1	Harrogate.
p Buxton	*987*	*47*	*21st*	*32*	*16th*	*45·0*	*37·0*	*40·8*	*- 1·9*	*6*	*3·05*	*77*	*+ 60*	*0·9*	—	*6*	1	27	41·5	-2·9	41·1	-1·2	*Buxton.*
a Bawtry	65	52	17, 18	34	16th	49·9	38·9	41·1	- 2·0	6	0·80	20	+ 12	2·0	—	14	0	33	44·1	-0·1	42·7	0·0	Sheffield.
a Nottingham	82	53	17th	34	16th	50·4	38·9	44·4	- 1·6	6	0·75	19	+ 10	1·4	- 3·1	10	2	24	45·5	•	44·5	•	Worksop.
b, East *p* Birmingham, Edgbsn.	535	54	21st	34	16, 20	49·4	38·4	43·6	- 2·3	6	0·60	15	+ 4	2·3	—	9	1	26	44·0	-1·4	42·6	-0·7	Nottingham.
a Raunds	203	56	21st	29	16th	52·3	37·1	44·3	- 1·4	5	0·48	12	—	1·3	—	9	1	23	42·6	-1·4	43·6	-0·5	Birmingham.
p Oxford	208	54	21st	35	16th	51·9	39·1	45·2	- 1·7	5	0·60	15	+ 6	*2·0*	—	*14*	3	19	44·9	•	44·0	•	*Raunds.*
														2·6	- 2·5	19	2	25	•	•	•	•	Oxford.
a Cheadle	646	50	17th	33	16th	47·6	37·9	42·5	- 2·4	6	1·35	34	+ 22	•	•	•	1	28	•	•	•	•	Cheadle.
c, West *p* Shrewsbury	191	54	17th	33	22nd	51·6	38·3	44·6	- 2·4	5	0·84	21	—	•	•	•	2	28	•	•	•	•	Shrewsbury.
a Hereford§	291	54	17, 21	32	16th	52·7	37·3	44·6	- 2·3	5	0·52	13	+ 3	•	•	•	3	25	•	•	•	•	*Malvern.§*
a Bath	66	55	22nd	33	16, 21, 22	52·3	37·9	44·8	- 2·2	5	0·50	13	+ 2	1·9	—	14	•	•	46·5	-1·6	46·1	-0·8	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	53	22nd	28	16th	50·6	36·9	43·4	- 2·3	6	0·50	13	+ 2	3·2	—	23	2	27	47·2	-1·0	46·7	+0·3	Worthing.
a Margate	53	55	17th	39	16, 21	52·1	41·4	46·5	- 0·3	7	0·85	22	+ 14	2·1	- 2·7	15	2	22	45·5	•	46·1	•	Marlborough.
a Wisley, Surrey	150	54	17, 21	33	16th	51·9	39·4	45·4	- 0·6	6	0·55	14	—	2·5	- 2·8	18	0	34	47·3	+0·4	46·8	+1·4	Margate.
p Salisbury (Wilton)	180	55	22nd	32	21st	53·0	39·3	45·4	- 2·1	4	0·57	14	+ 1	2·1	—	15	2	19	44·9	-2·0	44·6	-1·3	Wisley.
a Tunbridge Wells	354	54	17th	31	16th	50·4	38·0	43·9	- 2·3	6	0·64	16	+ 6	1·2	- 4·3	9	2	26	46·4	•	•	•	Salisbury.
																	3	22	45·4	-1·8	45·2	•	Tunbridge Wells.
a Dungeness	21	52	18th	33	16th	50·1	40·3	45·0	- 1·3	7	0·98	25	+ 17	•	•	•	•	•	•	•	•	•	
p Hastings	178	52	17, 18	36	16th	50·1	40·9	45·3	- 1·5	6	0·94	24	+ 15	2·2	- 3·7	16	0	31	46·6	•	45·9	•	Littlestone.
p Southampton	64	55	17, 22	34	16th	52·4	40·0	45·9	- 2·8	5	0·49	12	+ 1	3·2	- 2·5	23	3	23	•	•	•	•	Hastings.
a Ventnor	59	55	22nd	39	16th	52·1	41·9	46·8	- 1·4	4	0·34	9	- 1	3·8	- 2·3	28	•	•	•	•	•	•	Southampton.
LONDON. *p* Kew	18	55	21st	34	16th	51·6	40·3	45·7	- 1·5	4	0·51	13	+ 5	2·4	- 2·7	17	2	25	45·7	-1·4	45·7	0·0	Ventnor.
a Westminster	*27*	*56*	*17, 21*	*33*	*16th*	*53·6*	*40·1*	*46·5*	*- 0·8*	*6*	*0·65*	*17*	*+ 9*	*2·3*	*- 1·6*	*17*	1	29	•	•	•	•	Kew.
a Greenwich	*155*	*57*	*17th*	*34*	*16th*	*54·0*	*39·3*	*46·3*	*- 1·0*	*4*	*0·48*	*13*	*+ 4*	*2·1*	*- 2·9*	*15*	1	27	•	•	•	•	*Westminster.*
a Hampstead	*450*	*54*	*21st*	*32*	*16th*	*50·9*	*37·1*	*43·7*	—	*6*	*0·60*	*15*	—	*2·6*	—	*19*	4	32	•	•	•	•	*Greenwich.*
a Camden Square	*110*	*58*	*21st*	*33*	*16th*	*54·7*	*39·7*	*46·8*	—	*6*	*0·49*	*12*	—	*2·5*	—	*18*	1	29	•	•	•	•	*Hampstead.*
																							Camden Square.
7. *a*, ENGLAND, N.W.																							
p Aspatria	250	52	18th	35	16th	48·6	38·4	43·3	- 1·1	7	1·46	37	+ 24	3·5	—	25	•	•	•	•	•	•	Hoylake.
p Newton Rigg	559	52	18th	32	16th	48·6	37·3	42·7	- 1·0	7	1·68	43	+ 30	2·4	—	17	1	30	45·0	•	43·8	•	Aspatria.
p Stonyhurst	375	50	22nd	35	16th	48·3	38·7	43·3	- 1·4	6	2·33	59	+ 43	2·6	- 2·5	19	2	25	44·3	•	42·2	-0·6	Newton Rigg.
p Blackpool	66	50	17, 21	38	16th	48·6	40·9	44·6	- 1·0	5	1·10	28	+ 17	1·5	- 3·6	11	3	27	•	•	•	•	Stonyhurst.
a Southport	*37*	*50*	*16, 17*	*38*	*16, 20*	*48·1*	*40·6*	*44·2*	*- 1·5*	*5*	*0·99*	*25*	*+ 14*	*3·6*	*- 1·7*	*25*	1	25	46·5	•	45·0	•	Blackpool.
a Liverpool (Bidston)	188	51	16, 17	39	16, 20-22	48·0	40·0	43·8	- 2·0	5	0·83	21	+ 11	*4·0*	*- 1·5*	*29*	0	32	46·9	-0·3	45·6	0·0	*Southport.*
a Hawarden Bridge	22	56	22nd	37	18th	50·9	41·9	46·2	- 1·0	5	0·77	20	+ 12	*3·3*	—	*24*	•	•	•	•	•	•	*Liverpool.*
p Manchester (Whit. Pk.)	125	50	16, 17, 22	36	16th	48·0	40·7	44·2	- 2·5	6	1·44	37	+ 26	*1·2*	—	*8*	0	34	43·5	-0·9	44·2	-0·2	*Manchester (City)*
														0·7	*- 3·0*	*5*	•	•	•	•	•	•	" (Whit. Park)
b NORTH WALES.																							
p Llandudno	71	53	16th	39	16, 20	48·4	40·9	44·5	- 2·3	5	0·72	18	+ 8	3·5	- 1·8	25	•	•	•	•	•	•	Llandudno.
Holyhead	15	52	21st	40	20th	49·4	42·7	45·9	- 0·3	6	0·69	18	+ 6	*3·6*	—	*26*	•	•	•	•	•	•	*Holyhead.*
p Bettws-y-Coed	148	54	16th	35	16, 22	49·3	38·3	43·5	- 2·9	6	2·25	57	—	1·8	—	13	•	•	44·0	-0·9	44·6	-0·1	Bettws-y-Coed.
														3·0	—	22	•	•	•	•	•	•	Aberdovey.

† Earth temperature at 3 ft

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	Bright Sunshine. Hours per Day. Daily Mean	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														3·1	—	22	•	•	•	•	•	•	Aberystwyth.
a Llangammarch Wells	550	52	16th	30	16, 22	48·7	36·2	42·2	− 2·6	7	1·96	50	—	2·5	—	18	3	24	44·3	−1·1	44·3	−0·3	Llangammarch.
a Pembroke	149	52	17th	40	21st	49·7	42·9	46·1	− 0·2	5	0·79	20	+ 8	4·1	− 1·9	29	•	•	•	•	•	•	Pembroke.
p Cardiff	202	54	22nd	37	16, 21	50·6	39·6	44·8	− 3·4	5	0·70	18	+ 4	3·5	—	25	2	28	45·5	−1·1	45·2	+0·1	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	52	18, 21	39	22nd	50·9	40·9	45·7	− 2·1	4	0·77	20	+ 7	2·6	—	19	0	36	•	•	•	•	*Clifton.*
a Shaftesbury	722	53	21st	35	21st	49·3	37·7	43·2	− 2·5	5	0·59	15	+ 2	•	•	•	•	•	45·1	•	45·4	•	Shaftesbury.
a Arlington	613	52	17th	34	21st	48·4	38·0	43·0	− 2·7	5	1·14	29	+ 12	•	•	•	•	•	•	•	•	•	Arlington.
a Newquay	*190*	*51*	*16, 17*	*32*	*21st*	*49·7*	*40·7*	*45·0*	*− 3·0*	*4*	*0·30*	*8*	*− 4*	6·1	+ 0·3	45	•	•	48·7	•	47·4	•	Newquay.
a Cullompton	202	57	21st	29	21st	53·4	38·6	45·6	− 1·5	5	0·65	17	+ 4	4·1	− 1·1	29	3	24	47·0	•	•	•	Cullompton.
a Portland Bill	12	52	22nd	41	22nd	49·6	42·7	46·0	− 1·3	5	0·31	8	—	*4·3*	—	*31*	•	•	•	•	•	•	*Weymouth.*
p Plymouth	116	54	17th	33	21st	51·9	40·6	46·0	− 2·1	4	0·26	7	− 6	4·6	− 1·1	34	•	•	47·4	−1·5	47·0	•	Plymouth.
a Falmouth	167	56	16th	35	21st	52·0	40·7	46·1	− 1·6	7	0·56	14	− 1	6·5	+ 0·4	47	1	25	50·0	•	49·3	•	Falmouth.
9. IRELAND, N.																							
a, West .. { *a* Malin Head	208	51	16th	38	20th	47·9	40·4	44·0	− 1·3	5	1·19	30	+ 19	*4·1*	—	*29*	•	•	•	•	•	•	*Malin Head.*
a Blacksod Point ..	?	50	16th	38	22nd	47·6	40·1	43·7	− 3·2	7	1·61	41	+ 24	•	•	•	•	•	•	•	•	•	•
p Markree Castle ..	122	56	16th	34	21, 22	51·1	38·0	44·2	− 1·3	7	2·10	53	+ 38	3·1	− 1·8	22	2	29	46·3	•	45·0	•	Markree Castle.
a Birr Castle	175	54	16th	31	18th	50·0	37·7	43·6	− 2·7	7	0·96	24	+ 12	*4·0*	*− 1·1*	*29*	•	•	•	•	•	•	*Birr Castle.*
b, East .. { *p* Armagh	196	55	16th	34	20th	51·6	38·6	44·8	− 0·9	6	0·91	23	+ 11	2·5	− 2·4	18	2	28	46·1	0·0	44·6	−0·9	Armagh.
a Donaghadee ..	101	55	16th	38	16th	48·7	40·6	44·5	− 1·0	7	0·45	11	− 1	•	•	•	2	28	46·4	−0·8	46·1	−0·3	Trinity Coll.
10. IRELAND, S.														3·7	− 1·8	26	3	27	•	•	•	•	Phœnix Park.
a, East .. { *p* Dublin, City	47	56	16th	37	22nd	50·9	41·0	45·7	− 2·1	6	0·75	19	+ 8	•	•	•	0	34	•	•	•	•	Dublin City.
a Kilkenny	212													•	•	•	•	•	•	•	•	•	•
a Waterford	20	57	16th	37	20th	51·9	41·7	46·6	0·0	6	0·36	9	− 5	•	•	•	•	•	•	•	•	•	•
a Seskin, Carrick-on-Suir	*541*	*55*	*16th*	*35*	*20, 22*	*51·3*	*38·6*	*44·7*	—	*5*	*0·66*	*17*	—	*5·8*	—	*42*	0	33	•	•	•	•	*Seskin.*
b, West .. { *a* Birr Castle	175	54	16th	31	18th	50·0	37·7	43·6	− 2·7	7	0·96	24	+ 12	4·0	− 1·1	29	•	•	•	•	•	•	Birr Castle.
a Foynes	50	54	16th	38	22nd	49·9	41·9	45·7	− 1·7	6	0·67	17	+ 3	•	•	•	•	•	•	•	•	•	•
a Cahir	199	58	16th	37	20, 22	52·3	40·3	46·0	0·0	7	1·07	27	—	•	•	•	•	•	•	•	•	•	•
a Killarney	174													•	•	•	•	•	•	•	•	•	•
a Valencia	30	53	16th	36	21st	50·1	42·1	45·9	− 2·2	6	0·43	11	− 12	5·4	+ 0·1	39	•	•	•	•	•	•	Valencia.
a Roche's Point ..	32	55	16th	40	20-22	52·0	42·4	47·0	− 0·8	6	0·45	12	− 4	5·0	—	36	•	•	•	•	•	•	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	53	20th	38	21st	51·7	42·9	47·1	− 1·6	2	0·12	3	− 8	7·2	+ 1·2	53	•	•	•	•	•	•	Scilly.
a Jersey, St. Aubins ..	25	54	22nd	37	16th	51·4	42·0	46·5	− 2·5	5	0·59	15	+ 3	4·8	− 1·6	35	•	•	•	•	•	•	St. Heliers.
a Guernsey (Villa Carey)	180	53	17, 22	40	16, 20	51·6	42·4	46·8	− 2·0	6	0·53	13	− 1	4·6	− 2·0	34	0	31	48·9	−0·1	48·7	+0·5	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, April 22nd, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Above Ground.	Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.	Date and Hour.	Highest Gust with Date and Time.
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	m/s.		m/s. d. h. m.
1. SCOTLAND, E.														
Dyce	305	75	‡15**	—	—	—	—	12	109	47	0	S. 7	16th 13h.	17 16th 13 . 4
Aberdeen*	153	105	37 ‡	—	—	—	—	59	78	31	0	NE. 10	19th 12h.	15 16th 19 . 4
			52 †											
Edinburgh	485	39	31	—	—	16th	2	105	58	3	0	SSE. 11	16th 11h.	16 19th 15 . 56
6. SCOTLAND, W.														
Eskdalemuir	850	50	22	—	—	17th	1	95	52	20	0	WSW. 11	17th 11h.	17 17th 11 . 55
Paisley	188	81	52	—	—	—	—	23	129	16	0	NW. by N. 9	18th 13h.	16 18th 7 . 1
2. ENGLAND, N.E.														
Alnwick Castle	340	70	17	—	—	—	—	4	86	78	0	S. 6	16th 13h.	13 16th 11 . 46
South Shields	72	61	12	—	—	—	—	15	73	80	0	W. by N. 9	17th 16h.	15 17th 15 . 17
Spurn Head	66	40	‡	—	—	18th	1	51	77	39	0	NNW. 11	18th 20h.	16 17th 16 . 45
3. ENGLAND, E.														
Gorleston	52	42	‡	—	—	—	—	63	93	12	0	— 9	16th 21h.	16 17th 16 . 30
Shoeburyness	103	90	‡	—	—	16 to 18	12	91	60	5	0	W. 12	18th 10h.	25 17th 15 . 56
4. MIDLAND COUNTIES.														
Benson	270	84	‡	—	—	17, 18	5	84	61	18	0	W. 13	17th 15h.	26 17th 15 . 37
5. ENGLAND, S.E.														
Dover	271	40	‡	—	—	16, 17, 20, 22	12	95	45	16	0	— 12	17th 15h.	20 17th 18 . 8
Warlingham	642	33	‡	—	—	—	—	18	87	39	26	— 8	18th 10h.	20 17th 15 . 53
Brighton	261	53	6	—	—	18th	1	70	52	9	36	— 11	18th 11h.	23 17th 17 . 35
Kew Observatory ..	82	65	6 ‡	—	—	17th	1	67	86	14	0	W. 12	17th 16h.	24 17th 16 . 18
			22 †											
South Kensington ..	123	92	30	—	—	—	—	9	129	30	0	W. by S. 8	17th 16h.	16 17th 15 . 7
7. ENGLAND, N.W.														
Carnforth	246	56	23	—	—	—	—	46	60	62	0	WSW. 9	18th 2h.	15 18th 2 . 3
Southport	80	62	48	17, 18	7	17 to 19	43	51	65	2	0	W. 20	18th 2h.	26 18th 1 . 7
Holyhead*	60	40	‡	17, 18	8	16 to 19	38	74	48	0	0	W. by N. 21	18th 2h.	27 18th 2 . 37
8. ENGLAND, S.W.														
Pendennis Castle§ ..	256	65	24	17, 18	8	16 to 19	59	62	32	7	0	W. 20	17th 15h.	29 18th 9 . 32
Plymouth	185	88	2	—	—	17, 18	10	83	56	19	0	— 13	17th 15h.	22 17th 15 . 38
10. IRELAND, S.														
Quilty	100	40	‡	17th	1	16 to 19	74	37	21	11	24	— 17	17th 24h.	28 18th 5 . 50
Weaver Pt.	160	30	‡	—	—	—	—	—	—	—	—	— —	— —	— — —
11. ENGLISH CHANNEL.														
Scilly*	150	32 19	‡	17, 18	14	16 to 20, 22	70	44	22	18	0	WNW. 18	17th 19h.	26 18th 5 . 50

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

** Above tops of trees.

‡ Standard mounting.

§ Direction from the Robinson Anemometer at Falmouth Observatory.

† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

SIXTEENTH WEEK—April 16th to April 22nd, 1916.

DISTRICTS, (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L
			Means of				Accumulated Number of Day-Degrees.												
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	53	32	81·2	76·4	78·7	− 0·6	18	− 10	11	− 6	6	+ 2	1·30	33	+ 17	2·4	−2·4	16	996
Eastern.																			
1. SCOTLAND, EAST ...	55	28	80·9	75·6	78·1	− 1·4	12	− 22	20	+ 2	7	+ 4	1·70	43	+ 32	1·1	−3·7	8	995
2. ENGLAND, N.E.	55	30	82·4	76·9	79·5	− 0·4	25	− 7	8	− 4	6	+ 2	0·96	24	+ 15	1·5	−3·5	11	995
3. ENGLAND, EAST ...	57	30	83·6	76·9	80·1	− 0·6	31	− 11	8	− 4	5	+ 2	0·67	17	+ 8	2·1	−3·2	15	997
4. MIDLAND COUNTIES ...	56	29	83·3	76·4	79·7	− 1·0	31	− 12	11	− 2	6	+ 3	0·75	19	+ 9	1·8	−3·0	13	997
5. ENGLAND, S.E.	55	28	83·7	77·3	80·4	− 0·9	32	− 13	6	− 1	6	+ 3	0·64	16	+ 6	2·6	−2·8	18	999
Western.																			
6. SCOTLAND, WEST ...	52	32	82·4	77·0	79·6	− 0·7	24	− 12	8	− 3	6	+ 3	1·36	35	+ 20	2·3	−2·9	16	996
7. ENGLAND, N.W.	56	32	82·3	77·4	79·8	− 0·9	24	− 13	6	− 2	6	+ 3	1·33	34	+ 23	2·7	−2·4	20	997
8. ENGLAND, S.W.	57	29	83·3	77·3	80·2	− 1·1	30	− 13	6	0	5	+ 2	0·77	20	+ 6	4·4	−1·1	32	1001
9. IRELAND, NORTH ...	56	31	82·7	77·0	79·7	− 1·0	26	− 12	8	0	7	+ 3	1·20	30	+ 17	3·2	−1·6	23	998
10. IRELAND, SOUTH ...	58	31	83·6	78·0	80·7	− 0·8	31	− 13	3	− 2	6	+ 2	0·67	17	+ 2	4·5	−0·7	33	1003
11. ENGLISH CHANNEL ...	54	37	83·8	78·8	81·2	− 1·2	34	− 15	0	− 1	4	0	0·41	10	− 2	5·5	−0·8	40	1004

THE SEASON (Spring).—Aggregates, &c., for the Period of 8 Weeks, February 27th to April 22nd, 1916.

0. SCOTLAND, NORTH ...	60	20	79·4	74·2	76·7	− 0·9	58	− 66	251	+ 30	41	+ 3	5·85	148	− 31	2·9	−0·7	23	1007
Eastern.																			
1. SCOTLAND, EAST ...	65	18	79·3	73·4	76·2	− 1·4	75	− 89	309	+ 69	38	+ 7	5·71	145	+ 47	3·1	−0·8	26	1007
2. ENGLAND, N.E.	66	20	80·5	74·6	77·4	− 0·9	119	− 53	221	+ 35	40	+11	5·42	137	+ 59	3·5	−0·8	28	1006
3. ENGLAND, EAST ...	70	24	81·3	74·8	77·9	− 0·8	145	− 80	201	+ 4	38	+10	5·41	136	+ 65	3·4	−1·0	27	1006
4. MIDLAND COUNTIES ...	69	21	81·1	74·1	77·5	− 1·2	148	− 86	243	+ 42	36	+10	5·87	150	+ 70	3·2	−0·7	26	1007
5. ENGLAND, S.E.	71	18	81·9	75·2	78·4	− 1·0	172	− 68	175	+ 33	36	+11	5·70	144	+ 66	3·7	−0·6	30	1006
Western.																			
6. SCOTLAND, WEST ...	62	17	80·4	74·4	77·3	− 1·2	107	− 63	218	+ 45	32	+ 1	4·52	116	− 33	3·5	−0·6	29	1008
7. ENGLAND, N.W.	66	8	80·5	74·9	77·6	− 1·2	112	− 72	199	+ 47	34	+ 6	4·79	123	+ 19	3·4	−0·5	28	1007
8. ENGLAND, S.W.	64	17	81·3	75·0	78·0	− 1·6	153	− 83	193	+ 75	33	+ 5	5·39	138	+ 18	4·6	+0·2	37	1007
9. IRELAND, NORTH ...	61	18	80·9	74·7	77·7	− 1·4	121	− 83	200	+ 59	37	+ 2	4·53	116	− 4	3·3	−0·5	27	1008
10. IRELAND, SOUTH ...	61	20	81·7	75·2	78·4	− 1·5	158	− 99	162	+ 56	40	+ 9	4·10	103	− 29	3·9	−0·5	32	1010
11. ENGLISH CHANNEL ...	61	30	82·3	77·3	79·7	− 1·2	193	− 88	64	+ 25	36	+ 5	5·68	142	+ 42	5·0	−0·3	41	1007

THE YEAR.—Aggregates, &c., for the Period of 16 Weeks, January 2nd to April 22nd, 1916.

0. SCOTLAND, NORTH ...	60	20	79·7	74·6	77·1	+ 0·2	160	− 18	429	− 86	88	+ 9	21·33	541	+107	2·2	−0·2	22	1006
Eastern.																			
1. SCOTLAND, EAST ...	65	7	79·7	73·8	76·8	0·0	171	− 54	553	− 23	74	+12	11·99	306	+ 95	2·7	−0·2	26	1007
2. ENGLAND, N.E.	66	20	80·9	75·1	78·0	+ 0·5	279	+ 37	373	− 81	68	+10	8·44	215	+ 59	2·8	−0·3	27	1009
3. ENGLAND EAST ...	70	24	81·3	75·2	78·3	+ 0·7	314	+ 12	353	−146	71	+14	9·93	250	+103	2·7	−0·5	26	1011
4. MIDLAND COUNTIES ...	69	21	81·3	74·9	78·0	+ 0·4	320	− 4	402	− 99	68	+13	10·27	262	+ 86	2·5	−0·4	24	1011
5. ENGLAND, S.E.	71	15	81·8	75·9	78·8	+ 0·5	372	+ 29	294	− 78	72	+19	10·84	275	+ 96	2·9	−0·3	28	1012
Western.																			
6. SCOTLAND, WEST ...	62	17	80·6	75·1	77·8	0·0	235	− 15	355	− 50	77	+10	13·38	341	− 12	2·7	−0·1	26	1009
7. ENGLAND N.W.	66	8	81·0	75·8	78·4	+ 0·4	279	+ 12	306	− 68	73	+12	11·23	286	+ 52	2·5	−0·3	24	1010
8. ENGLAND, S.W.	64	17	81·5	76·2	78·8	− 0·1	347	− 23	279	− 14	74	+13	13·40	344	+ 64	3·2	0·0	30	1012
9. IRELAND NORTH ...	61	18	81·2	75·4	78·3	− 0·1	293	− 21	322	− 11	81	+ 9	10·97	280	+ 9	2·7	−0·1	26	1009
10. IRELAND, SOUTH ...	61	20	82·2	76·2	79·1	− 0·2	379	− 43	241	− 11	88	+23	11·29	285	− 20	2·9	−0·3	28	1013
11. ENGLISH CHANNEL ...	61	30	82 6	78·3	80·4	0·0	465	− 12	85	− 24	79	+11	12·64	318	+ 83	3·5	−0·4	33	1013
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	m.m.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A. Acting Superintendent of Statistics, South Kensington, S.W., April 27th, 1916.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 65

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 17. SUNDAY, APRIL 23RD, TO SATURDAY, APRIL 29TH, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE SEVENTEENTH WEEK OF 1916.

The first two days of this period were marked by dull conditions over the greater part of the British Isles, rain in many localities, mostly light in quantity. A decided change took place in the night of the 24th, and the remainder of the week proved very fine, bright, and warm, the temperature at a number of stations on the 27th attaining exceptionally high levels for the time of year. Slight frost in the shade occurred on the opening morning at a few isolated situations in Britain, but from the 26th to the 29th numerous afternoon maxima exceeded 294° A. (70° F.), there being a number of instances of 297° to 298° A. (75° to 77° F.) on the 27th. Many night minima were between 283° and 287° A. (50° and 57° F.). For the whole week, therefore, the mean results were everywhere in excess of the average, by as much as 3° A. (5½° F.) in England East and South-East. The only considerable precipitations were, on the 23rd 24 mm. at Fort William, and 41 mm. at Killarney; and on the 24th 31 mm. at Armagh, and 46 mm. at Killarney. These falls account for Scotland West showing 124 per cent. on the week's average, Ireland North 173, and Ireland South 218 per cent., the rest of the kingdom being dry, many parts of England rainless throughout. The bright sunshine in England East and South-East was more than 3 hours per day above the normal, but Ireland South returned a deficiency of an hour per day. Aurora was seen at Holyhead, Benson and Little Massingham on the 25th, and at Eskdalemuir on the 26th, 27th and 29th. Thunderstorms, thunder or lightning occurred in various districts on the 26th, 27th and 28th. The coastal sea water was colder than usual off Caithness and the Isle of Man, but warmer elsewhere.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		ENGLAND, E.		NORTH WALES.		ENGLAND, S.W.		IRELAND, S.	
	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.
		m/s		m/s		m/s		m/s		m/s
South	7	4·1	4	2·4	5	6·0	4	6·6	5	5·9
North	0	—	3	1·9	2	3·5	3	3·8	2	3·7
West	4	2·1	2	2·1	5	10·2	3	4·5	2	3·1
East	3	4·3	4	1·6	2	2·2	3	4·4	4	3·3
Calm	0	—	0	—	0	—	0	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH AVERAGE.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ... Warmth ...	Unusual	Unusual	Very unusual	Very unusual	Unusual	Very unusual	Unusual	Very unusual	Very unusual	Moderate	Unusual	Unusual
Rainfall ...	Moderate	Moderate	Very light	Light	Light	Very Light	Heavy	Light	Light	Heavy	Very heavy	Very light
Sunshine ...	Abundant	Moderate	Moderate	Very abundant	Abundant	Very abundant	Moderate	Moderate	Abundant	Moderate	Scanty	Abundant

II.—THE SPRING SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SPRING. 9 weeks from Feb. 27th, 1916.	Warmth ...	1, 4, 4	1, 2, 6	2, 3, 4	1, 6, 2	1, 5, 3	1, 5, 3	1, 4, 4	1, 4, 4	1, 4, 4	0, 5, 4	1, 4, 4	1, 3, 5
	Rainfall ...	3, 3, 3	4, 4, 1	5, 1, 3	7, 1, 1	6, 1, 2	5, 3, 1	3, 2, 4	3, 2, 4	3, 3, 3	3, 3, 3	1, 5, 3	3, 5, 1
	Sunshine ...	1, 5, 3	1, 4, 4	2, 3, 4	3, 1, 5	3, 1, 5	3, 1, 5	2, 4, 3	2, 4, 3	3, 4, 2	0, 6, 3	1, 5, 3	3, 1, 5

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1° A. = increment of $\frac{9}{5}$° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(8041—19.) Wt. 79a—736. 450. 5/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.	Bright Sunshine Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
0. SCOTLAND, N.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
a, Islands.. *p Baltasound*	*31*																						
a Lerwick..	54	52	27th	36	23rd	48·9	40·1	44·3	+ 1·9	3	0·21	5	—	4·5	- 0·7	30	•	•	•	•	•	•	*Baltasound.*
a Stornoway	51	57	26th	34	23, 24	53·3	38·9	45·8	+ 1·7	5	0·85	22	+ 6	7·7	+ 2·1	51	•	•	•	•	•	•	Deerness.
a Castlebay, Barra Isd.	*37*	*63*	*28th*	*35*	*23rd*	*53·4*	*41·4*	*46·8*	*+ 1·5*	*4*	*0·51*	*13*	—	*7·4*	—	*50*	•	•	•	•	•	•	Stornoway
a Wick	81	53	27th	35	23rd	48·9	40·0	44·2	0·0	4	0·35	9	- 2	•	•	•	•	•	•	•	•	•	*Castlebay.*
b, Mainland. *p* Strathpeffer	200	66	26th	34	23rd	58·1	42·4	49·9	+ 5·2	2	0·06	2	- 9	6·1	+ 1·1	41	•	•	•	•	•	•	•
p Glencarron	500	66	26th	33	23rd	56·7	40·7	48·3	+ 4·6	4	0·51	13	- 16	•	•	•	•	•	•	•	•	•	Strathpeffer.
p Fort Augustus..	68	68	26th	34	23rd	58·1	41·0	49·1	+ 4·2	3	0·60	15	+ 2	5·8	+ 1·8	39	•	•	•	•	•	•	•
p Fort William	171	70	26th	35	23rd	58·9	42·1	50·1	+ 4·1	4	1·66	42	+ 20	•	•	•	•	•	•	•	•	•	Fort Augustus.
1. SCOTLAND, E.																							
p Gordon Castle..	101	68	27th	35	23rd	59·0	42·1	50·1	+ 5·0	2	0·36	9		4·9	—	33	3	24	44·8	+0·7	42·3	-0·5	Crathes.
a Nairn	82	68	26th	33	23rd	59·3	39·7	49·0	+ 4·0	3	0·28	7	- 2	*6·9*	—	*46*	•	•	•	•	•	•	*Gordon Castle.*
a Aberdeen	46	59	28th	36	23rd	53·0	40·6	46·5	+ 1·7	4	0·44	11	- 1	7·4	—	50	•	•	•	•	•	•	Nairn.
a Balmoral	930	60	27th	30	23rd	53·9	36·7	44·9	+ 3·1	3	0·60	15	+ 2	4·6	- 0·9	31	•	•	•	•	42·6	-0·3	Aberdeen.
p Crieff	432	63	26th	31	23rd	56·9	39·1	47·6	+ 1·5	3	1·26	32	+ 19	•	•	•	1	27	•	•	•	•	Balmoral.
														5·0	•	34	•	•	•	•	•	•	Balruddery.
a Leith	18	67	26th	39	23rd	59·6	42·9	50·9	+ 4·6	2	0·17	4	- 4	•	•	•	•	•	•	•	•	•	•
a West Linton	769	66	26th	34	29th	55·7	40·9	47·9	+ 5·9	3	0·26	7	—	*3·9*	—	*27*	1	26	•	•	•	•	*West Linton.*
p Marchmont	498	66	26th	33	23rd	55·1	41·3	47·9	+ 3·9	3	0·54	14	+ 1	4·1	- 0·9	28	1	29	•	•	•	•	Marchmont.
a Edinburgh	*441*	*66*	*26th*	*38*	*23rd*	*55·9*	*41·7*	*48·5*	—	*2*	*0·14*	*4*	—	6·1	—	42	0	32	•	•	•	•	Edinburgh.
6. *a*, SCOTLAND, W.																							
a Poltalloch	132	63	29th	37	23rd	54·9	42·4	48·4	+ 2·1	4	1·11	28	+ 13	•	•	•	•	•	•	•	•	•	•
p Glasgow Observatory	180	66	26th	40	23rd	57·4	44·6	50·7	+ 4·3	3	0·98	25	+ 12	4·6	0·0	32	0	35	•	•	•	•	Glasgow.
p Rothesay	170	63	26th	37	23rd	56·1	42·7	49·1	+ 2·5	4	0·89	23	+ 6	*5·7*	—	*39*	0	32	47·4	•	45·0	+0·2	*Rothesay.*
a Kilmarnock	90	70	26th	40	23, 29	61·0	44·0	52·1	+ 6·0	4	0·90	23	—	*5·5*	—	*38*	•	•	47·6	•	43·8	•	*Kilmarnock.*
a Colmonell	170	68	26th	35	29th	59·4	42·9	50·8	+ 4·3	3	0·96	24	+ 10	•	•	•	0	34	•	•	•	•	•
a Dumfries	160	69	26th	41	23rd	57·4	43·9	50·3	+ 3·6	3	0·56	14	+ 1	*4·7*	—	*32*	0	33	46·7	•	44·1	•	*Dumfries.*
Eskdalemuir	*799*	*66*	*26th*	*39*	*23, 28, 29*	*53·4*	*40·1*	*46·4*	—	*3*	*1·81*	*46*	—	*3·6*	—	*25*	•	•	•	•	•	•	*Eskdalemuir.*
p Cally, Gatehouse	120	66	26th	38	23rd	55·0	41·3	47·8	+ 1·6	2	0·50	13	- 5	•	•	•	•	•	•	•	•	•	•
b. I. OF MAN. *p* Douglas	277	63	29th	41	23rd	54·6	44·3	49·2	+ 3·0	3	0·71	18	+ 3	5·0	- 1·4	34	0	36	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	66	27th	37	23rd	57·6	41·4	49·1	+ 4·5	2	0·05	1	- 10	3·8	—	26	2	29	46·7	+3·1	43·8	+0·3	Cockle Park.
a Tynemouth	71	59	25th	40	23rd	54·1	43·3	48·4	+ 3·2	0	0·00	0	- 9	•	•	•	•	•	•	•	•	•	Tynemouth
p Durham	336	69	27th	37	23rd	58·1	41·6	49·5	+ 4·7	0	0·01	0·2	- 9	4·9	- 0·8	27	0	32	•	•	•	•	Durham.
a North.. *p* Rounton	249	72	27th	35	23rd	59·3	41·0	49·7	+ 5·0	2	0·06	2	- 7	•	•	•	1	28	47·6	•	•	•	Rounton.
a West Witton	*605*	*68*	*28th*	*39*	*23, 26*	*58·4*	*42·1*	*49·9*	—	*2*	*0·14*	*4*	—	•	•	•	0	31	47·0	•	41·2	•	*West Witton.*
p Scarborough†	100	62	25th	37	23rd	57·7	43·6	50·3	+ 4·7	2	0·06	2	- 9	4·8	—	33	•	•	•	•	45·3	•	Scarborough.
p York	56	72	27th	38	23rd	62·9	44·1	53·1	+ 5·9	2	0·11	3	- 7	5·6	+ 0·7	38	•	•	47·4	+1·2	44·7	0·0	York.
b, South.. *a* Spurn Head	26	65	25th	40	23, 24	54·9	42·4	48·4	+ 2·1	1	0·01	0·3	- 7	*4·2*	—	*29*	•	•	•	•	•	•	*Spurn Head.*
a Lincoln	58	74	27th	35	23rd	63·3	44·6	53·2	+ 5·8	1	0·01	0	- 9	•	•	•	•	•	49·5	+3·3	45·2	+0·5	Lincoln.
a Fulbeck	180	74	27th	35	23rd	62·9	43·1	52·5	+ 5·2	4	0·12	3	- 6	6·7	—	47	0	31	48·8	-0·6	44·7	-1·3	Rauceby.
														b·1	—	35	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																							
p Cromer	196	68	26th	36	23rd	61·3	43·6	52·0	+ 6·5	0	0·01	0·2	—	8·7	—	61	•	•	•	•	•	•	Cromer.
a, North.. *p* Little Massingham	280	75	27th	33	23rd	65·1	41·9	52·9	+ 5·8	1	0·36	9	- 1	7·9	+ 2·3	55	2	27	•	•	•	•	Lit. Massingham.
a Yarmouth	13	58	23rd	36	23rd	56·1	42·7	49·1	+ 3·2	0	0·00	0	- 9	9·5	—	66	•	•	49·9	-0·3	47·6	-0·8	Yarmouth.
a Norwich	93	75	27th	34	23rd	67·3	43·4	54·8	+ 8·3	1	0·01	0	—	*9·3*	—	*65*	1	28	48·9	•	•	•	*Norwich.*
a Geldeston	37	64	26, 28	33	23rd	60·0	41·9	50·5	+ 3·5	0	0·00	0	- 9	9·2	+ 3·4	64	•	•	•	•	•	•	Geldeston.
p Cambridge	41	76	27th	32	23rd	66·7	42·7	54·1	+ 6·1	0	0·00	0	- 9	7·7	+ 2·0	54	1	28	49·9	+1·4	46·5	-0·7	Cambridge.
b, South.. *a* Clacton-on-Sea	54	62	27, 28	37	23rd	58·4	46·3	52·1	+ 5·3	0	0·00	0	—	9·9	—	69	1	28	49·6	+1·4	47·1	-0·8	Clacton.
a Rothamsted	424	72	27th	32	23rd	63·6	42·7	52·7	+ 5·7	0	0·00	0	- 10	8·0	+ 2·6	56	1	27	47·4	•	•	•	Rothamsted.
p Tottenham	51	74	27th	38	23rd	66·0	45·4	55·2	+ 6·9	0	0·00	0	—	8·9	—	62	0	33	•	•	47·0	0·0	Tottenham.
4. MIDLAND COUNTIES.																							
a North.. *a* Harrogate	479	68	27th	35	23rd	59·4	40·6	49·6	+ 4·2	2	0·16	4	- 7	5·3	—	36	1	30	46·5	+2·2	44·7	+0·6	Harrogate.
p Buxton	*987*	*66*	*26, 27*	*35*	*23rd*	*59 6*	*39·9*	*49·3*	*+ 5·5*	*2*	*0·10*	*3*	*- 14*	*7·5*	—	*52*	3	26	45·1	-0·1	41·7	-1·6	*Buxton.*
a Bawtry	65	75	27th	36	23rd	64·3	41·4	52·3	+ 5·0	2	0·07	2	- 7	6·7	—	47	1	29	47·3	+1·9	43·5	0·0	Sheffield.
a Nottingham	82	72	27th	33	23rd	63·0	41·4	51·7	+ 4·5	2	0·13	3	- 6	6·1	+ 1·4	42	2	25	48·1	•	45·5	•	Worksop.
b, East.. *p* Birmingham, Edgbsn.	535	72	26th	35	23rd	62·9	44·3	53·2	+ 6·0	0	0·00	0	- 11	5·7	—	40	1	26	48·8	+2·5	43·8	-0·4	Nottingham.
a Raunds	203	76	27th	31	23rd	66·0	40·6	52·7	+ 5·5	2	0·02	1	—	5·2	—	36	1	30	46 0	+1·2	44·0	-0·5	Birmingham.
p Oxford	268	73	27th	37	23rd	64·7	43·1	53·4	+ 5·2	2	0 05	1	- 8	*6·2*	—	*43*	3	20	47·2	•	45·1	•	*Raunds.*
														7·9	+ 2·5	55	1	29	•	•	•	•	Oxford.
a Cheadle	646	72	29th	34	23rd	62·6	42 0	51·8	+ 5·9	1	0·04	1	- 11	•	•	•	1	30	•	•	•	•	Cheadle.
c, West.. *p* Shrewsbury	191	71	26th	36	29th	64·1	42·0	52·5	+ 4·3	1	0·02	1	—	•	•	•	0	31	•	•	•	•	Shrewsbury.
a Hereford§	291	72	26th	36	23rd	63·9	41·3	52·1	+ 3·9	0	0·00	0	- 11	*6·9*	•	*48*	1	29	48·9	•	45·9	•	*Malvern.*§
a Bath	66	72	26th	40	23rd	64·1	42·4	52·7	+ 4·2	3	0·27	7	- 4	7·4	—	52	•	•	49·8	+0·7	46·8	-1·0	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	71	26th	32	23rd	64·1	38·6	50·7	+ 4·1	2	0·07	2	- 9	10·5	—	74	1	30	51·6	+2·2	47·5	+0·1	Worthing.
a Margate	53	65	25th	41	23rd	60·1	46·1	52·8	+ 4·8	0	0·00	0	- 8	7·8	+ 2·7	55	2	27	48 4	•	46·7	•	Marlborough.
a Wisley, Surrey	150	75	27th	36	23rd	67·1	42·7	54·3	+ 5·3	0	0·00	0	—	9 4	+ 3·9	66	0	36	50·6	+3·0	47·8	+1·5	Margate.
p Salisbury (Wilton)	180	73	27, 28	34	23rd	65·7	40·6	52·6	+ 4·0	1	0·01	0	- 13	8·6	—	60	2	28	49·2	+1·4	45·5	-1·3	Wisley.
a Tunbridge Wells	354	74	27th	34	23rd	65·6	44·1	54·3	+ 6·9	0	0·00	0	- 10	•	•	•	1	28	49·6	•	•	•	Salisbury.
														8·6	+ 2·8	60	1	25	49·1	+0·8	46·0	•	Tunbridge Wells.
a Dungeness	21	65	27th	35	23rd	59·0	45·9	52·1	+ 4·6	0	0·00	0	- 8	•	•	•	•	•	•	•	•	•	Littlestone.
p Hastings..	178	70	28th	37	23rd	62·4	49·1	55·4	+ 7·3	0	0·00	0	- 9	10·6	+ 4·4	75	0	34	51·5	•	46·9	•	Hastings.
p Southampton	64	75	27th	36	23rd	65·0	44·9	54·5	+ 4·6	1	0·07	2	- 9	7·7	+ 1·7	54	1	25	•	•	•	•	Southampton.
a Ventnor	59	72	28th	40	23rd	63·1	48·1	55·2	+ 5·5	0	0·00	0	- 9	9·7	+ 3·3	69	•	•	•	•	•	•	Ventnor.
LONDON. *p* Kew	18	73	27th	35	23rd	65·7	45·1	54·9	+ 6·5	0	0·00	0	- 9	8·0	+ 2·6	56	1	27	49·6	+1·4	46·4	-0·3	Kew.
a Westminster	*27*	*76*	*27th*	*35*	*23rd*	*67·4*	*46·1*	*56·2*	*+ 7·4*	*0*	*0·00*	*0*	*- 8*	*8·3*	*+ 4·0*	*58*	0	31	•	•	•	•	*Westminster.*
a Greenwich	*155*	*72*	*27th*	*35*	*23rd*	*67·4*	*43·9*	*55·1*	*+ 6·4*	*0*	*0·00*	*0*	*- 8*	*8·2*	*+ 3·9*	*57*	1	28	•	•	•	•	*Greenwich.*
a Hampstead	*450*	*76*	*27th*	*34*	*23rd*	*65·3*	*44·3*	*54·3*	—	*0*	*0·00*	*0*	—	*8·8*	—	*62*	1	24	•	•	•	•	*Hampstead.*
a Camden Square	*110*	*77*	*27th*	*36*	*23rd*	*69·6*	*44·7*	*56·6*	—	*0*	*0·00*	*0*	—	*8·1*	—	*57*	0	31	•	•	•	•	*Camden Square.*
7. *a*, ENGLAND, N.W.																							
p Aspatria	250	70	26th	39	23rd	58·6	43·4	50·6	+ 5·1	3	0·36	9	- 4	5·8	—	40	•	•	•	•	•	•	Hoylake.
p Newton Rigg	559	65	26th	35	23rd	59·0	41·9	50·0	+ 5·2	2	0·21	5	- 8	5·0	—	34	0	37	48·1	•	44·5	•	Aspatria.
p Stonyhurst	375	68	26th	37	24rd	60·3	44·1	51·8	+ 5·8	1	0·11	3	- 13	4·7	- 0·7	32	1	29	47·4	+2·0	43·5	0·0	Newton Rigg.
p Blackpool	66	70	26th	39	28, 29	60·7	43·9	51·9	+ 5·2	2	0·12	3	- 8	5·4	0·0	38	1	29	•	•	•	•	Stonyhurst.
a Southport	*37*	*71*	*26th*	*42*	*28th*	*61·4*	*45·3*	*53·0*	*+ 6·3*	*2*	*0·06*	*2*	*- 9*	5·8	+ 0·2	40	0	31	49·8	•	45·8	•	Blackpool.
a Liverpool (Bidston)	188	71	26th	40	23rd	60·4	44·9	52·3	+ 5·1	0	0·00	0	- 10	*5·8*	*- 0·1*	*40*	0	33	51·4	+2·7	47·4	+0·5	*Southport.*
a Hawarden Bridge	22	71	26th	40	23rd	62·6	45·3	53·5	+ 5·0	0	0·00	0·1	- 8	6·2	—	*43*	•	•	•	•	•	•	*Liverpool.*
p Manchester (Whit. Pk.)	125	72	26th	37	23rd	62·9	45·3	53·7	+ 5·6	1	0·01	0·2	- 11	*5·3*	—	*37*	0	33	47·7	+2·4	45·2	0·0	*Manchester (City)*
														4·9	*+ 0·9*	*34*	•	•	•	•	•	•	" (*Whit. Park*)
b NORTH WALES.																							
p Llandudno	71	71	26th	42	28th	58·3	46·0	51·9	+ 4·1	0	0·00	0	- 10	6·1	+ 0·5	42	•	•	•	•	•	•	Llandudno.
Holyhead	15	67	26th	41	27th	55·1	43·9	49·2	+ 1·9	2	0·24	6	- 6	*5·7*	—	*40*	•	•	•	•	•	•	*Holyhead.*
p Bettws-y-Coed	148	71	26th	38	26, 28	58·6	42·1	50·0	+ 2·4	2	1·11	28	—	4·9	—	34	•	•	46·7	+0·7	45·3	0·0	Bettws-y-Coed.
														6·9	—	48	•	•	•	•	•	•	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.		Deviation from Normal.	Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts.	Lowest Reading.	Mean.	Deviation from average.	Mean.	Deviation from average	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														6·3	—	44	•	•	•	•	•	•	
a Llangammarch Wells	550	70	26th	35	23, 26, 28	61·5	41·2	50·9	+ 5·0	2	0·47	12	—	6·8	—	48	3	26	47·8	+1·5	45·2	-0·1	Llangammarch.
a Pembroke	149	65	29th	40	28th	54·4	44·9	49·4	+ 2·1	4	0·30	8	- 3	7·2	+ 0·9	50	•	•	•	•	•	•	Pembroke.
p Cardiff	202	71	26th	39	28th	61·9	44·3	52·7	+ 3·4	2	0·36	9	- 5	*8·8*	—	*62*	0	33	49·5	+2·0	45·9	-0·1	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	73	26th	42	23rd	63·7	45·3	54·1	+ 5·0	0	0·00	0	- 13	*7·9*	—	*55*	0	31	•	•	•	•	*Clifton.*
a Shaftesbury	722	67	26, 28, 29	37	23rd	61·7	42·7	51·7	+ 4·8	2	0·06	2	- 11	•	•	•	•	•	49·0	•	46·2	•	Shaftesbury.
a Arlington	613	67	26-29	40	23, 28	62·3	44·4	52·9	+ 6·4	2	0·32	8	- 9	•	•	•	•	•	•	•	•	•	Arlington.
a Newquay	*190*	*68*	*29th*	*42*	*28th*	*53·1*	*44·9*	*51·2*	+ *2·4*	*2*	*0·05*	*1*	- *10*	6·9	+ 0·8	49	•	•	51·2	•	48·1	•	Newquay.
a Cullompton	202	71	29th	37	23rd	64·0	42·7	52·8	+ 4·5	2	0·27	7	- 6	6·6	+ 1·1	47	1	29	49·7	•	•	•	Cullompton.
a Portland Bill	19	71	28th	44	23rd	56·6	47·4	51·8	+ 3·4	0	0·00	0	—	*7·8*	—	*55*	•	•	•	•	•	•	*Weymouth.*
p Plymouth	116	71	28th	38	23rd	62·6	46·9	54·4	+ 5·0	2	0·25	6	- 7	7·9	+ 1·8	56	•	•	51·3	+1·3	47·7	•	Plymouth.
a Falmouth	167	65	28, 29	41	23rd	58·7	44·4	51·2	+ 2·4	2	0·28	7	- 7	8·0	+ 1·5	57	0	35	52·5	•	49·6	•	Falmouth.
9. IRELAND, N.																							
a Malin Head	208	60	26th	30	24th	52·7	33·4	45·7	- 0·8	4	0·80	20	+ 9	*5·4*	—	*37*	•	•	•	•	•	•	*Malin Head.*
a, West .. *a* Blacksod Point ..	?	57	26th	38	25th	52·4	41·9	46·9	- 0·9	5	1·06	27	+ 10	•	•	•	•	•	•	•	•	•	•
p Markree Castle ..	122	66	29th	38	25th	58·0	42·6	49·9	+ 3·3	4	1·42	36	+ 21	4·0	- 1·2	27	0	38	49·0	•	45·6	•	Markree Castle.
a Birr Castle	175	63	29th	38	23rd	57·7	44·1	50·6	+ 3·3	5	1·02	26	+ 13	*3·6*	- *1·8*	*25*	•	•	•	•	•	•	*Birr Castle.*
b, East .. *p* Armagh	196	61	26, 28, 29	39	25th	58·4	43·4	50·5	+ 3·8	3	1·55	39	+ 26	5·0	- 0·3	34	0	37	48·5	+0·9	45·6	-0·7	Armagh.
a Donaghadee	101	62	28th	39	23rd	51·6	42·4	48·2	+ 1·6	4	0·72	18	+ 6	•	•	•	•	•	•	•	•	•	•
10. IRELAND, S.																							
p Dublin, City	47	63	26th	42	23rd	59·9	47·6	53·5	+ 4·7	3	0·20	5	- 6	5·1	- 0·7	35	0	36	•	•	•	•	Trinity Coll.
a East .. *a* Kilkenny	212	68	29th	40	23rd	58·4	45·9	51·9	+ 4·2	5	0·69	18	+ 5	•	•	•	0	40	•	•	•	•	Phœnix Park.
a Waterford	20	69	29th	41	23, 26	58·0	45·4	51·4	+ 3·7	3	1·33	34	+ 21	•	•	•	•	•	•	•	•	•	Dublin City.
a Seskin, Carrick-on-Suir	*541*													•	•	•	•	•	•	•	•	•	•
																							Seskin.
a Birr Castle	175	63	29th	38	23rd	57·7	44·1	50·6	+ 3·3	5	1·02	26	+ 13	3·6	- 1·8	25	•	•	•	•	•	•	Birr Castle.
a Foynes	50	61	29th	43	23rd	57·6	46·0	51·5	+ 3·1	4	0·77	20	+ 6	•	•	•	•	•	•	•	•	•	•
b, West .. *a* Cahir	198	68	29th	38	23rd	57·7	46·0	51·6	+ 4·3	4	0·78	20	—	•	•	•	•	•	•	•	•	•	•
a Killarney	174	68	29th	44	29th	59·9	47·2	53·3	+ 5·0	5	3·58	91	+ 72	•	•	•	•	•	•	•	•	•	•
a Valencia	30	64	29th	43	23rd	55·7	46·4	50·8	+ 1·8	4	2·68	68	+ 47	4·3	- 1·4	30	•	•	•	•	•	•	Valencia.
a Roche's Point	32	65	29th	42	23rd	54·7	46·4	50·4	+ 1·7	4	2·05	52	+ 36	•	•	•	•	•	•	•	•	•	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	62	29th	44	28th	55·7	46·4	50·8	+ 1·3	3	0·09	2	- 9	6·0	- 0·4	43	•	•	•	•	•	•	Scilly.
a Jersey, St. Aubins ..	25	69	28th	41	23rd	62·1	48·6	55·6	+ 4·9	0	0·00	0	- 12	9·4	+ 2·6	67	•	•	•	•	•	•	St. Heliers.
a Guernsey (Villa Carey)	180	71	26th	44	23rd	61·0	47·3	53·8	+ 4·0	1	0·01	0·2	- 13	9·6	+ 2·5	68	0	38	52·5	+2·5	49·4	+0·6	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, April 29th, 1916.

DISTRICT AND STATION.	Height.			Distribution of Wind.								Extreme Velocities.					
	Above Mean Sea Level.	Above Ground.	Above Building.	Gales, force 8 or more.		High Winds, forces 6 and 7.		Fresh or Moderate Winds, forces 4 and 5.	Light Winds, forces 2 and 3.	Calms and Light Airs, forces 0 and 1.	No Record.	Highest Hourly Wind.			Highest Gust with Date and Time.		
				Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Velocity.	Date and Hour.				
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.		m/s.	d.	h. m.
1. SCOTLAND, E.																	
Dyce	305	75	‡15**	—	—	—	—	24	82	62	0	S.	9	24th 17h.	23	24th	8 . 56
Aberdeen*	153	105 {	37	—	—	24th	2	23	90	53	0	S. by E.	13	24th 10h.	24	24th	9 . 50
		52 } †															
Edinburgh	485	39	31	24th	4	24, 25	20	44	91	1	8	S.	19	24th 11h.	28	24th	10 . 42
6. SCOTLAND, W.																	
Eskdalemuir	850	50	22	24, 25	11	23 to 25	31	56	44	26	0	S. by W.	18	24th 10h.	27	24th	10 . 7
Paisley	188	81	52	—	—	24th	10	27	110	21	0	SW. by S.	14	24th 8h.	27	24th	6 . 17
2. ENGLAND, N.E.																	
Alnwick Castle	340	70	17	—	—	—	—	26	81	54	7	S. by W.	9	24th 14h.	17	24th	14 . 53
South Shields	72	61	12	—	—	—	—	37	86	45	0	SSW.	11	24th 10h.	17	24th	9 . 10
Spurn Head	66	40	‡	—	—	—	—	80	75	13	0	WSW.	10	24th 13h.	17	24th	13 . 2
3. ENGLAND, E.																	
Gorleston	52	42	‡	—	—	—	—	47	75	46	0	—	11	24th 16h.	14	24th	10 . 10
Shoeburyness	103	90	‡	—	—	24, 29	2	69	88	9	0	SSW.	11	24th 12h.	14	24th	10 . 55
4. MIDLAND COUNTIES.																	
Benson	270	84	‡	—	—	—	—	75	56	37	0	SSW.	10	24th 13h.	16	24th	12 . 5
5. ENGLAND, S.E.																	
Dover	271	40	‡	—	—	29th	5	55	58	50	0	—	12	29th 15h.	17	29th	15 . 5
Warlingham	642	33	‡	—	—	—	—	13	89	66	0	—	7	24th 11h.	12	24th	11 . 18
Brighton	261	53	6	—	—	—	—	—	—	—	—	—	—	— —	—	—	—
Kew Observatory ..	82	65 {	6	—	—	29th	1	40	91	36	0	E.	11	29th 15h.	16	29th	15 . 10
		22 } †															
South Kensington ..	123	92	30	—	—	—	—	15	124	29	0	E. by N.	8	29th 16h.	14	29th	14 . 11
7. ENGLAND, N.W.																	
Carnforth	246	56	23	—	—	—	—	27	92	49	0	SE.	8	24th 8h.	14	23rd	11 . 34
Southport	80	62	48	—	—	23, 24	5	104	57	2	0	WSW.	12	23rd 11h.	18	24th	11 . 59
Holyhead*	60	40	‡	—	—	23 to 25	30	99	29	10	0	S.	14	24th 5h.	20	24th	7 . 35
8. ENGLAND, S.W.																	
Pendennis Castle§ ..	256	65	24	24th	4	23 to 25, 29	55	58	47	4	0	SSW.	18	24th 5h.	22	24th	8 . 38
Plymouth	185	88	2	—	—	24, 29	14	76	68	10	0	—	12	24th 4h.	20	29th	14 . 43
10. IRELAND, S.																	
Quilty	100	40	‡	—	—	23 to 26	28	91	40	7	2	—	13	26th 16h.	21	26th	16 . 37
Weaver Pt.	160	30	‡	—	—	23 to 25	27	97	43	1	0	—	17	23rd 24h.	25	24th	2 . 7
11. ENGLISH CHANNEL.																	
Scilly*	150	{ 32	‡	—	—	—	—	102	58	8	0	S.	10	24th 6h.	17	24th	7 . 8
		19 }															

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.
† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

SEVENTEENTH WEEK—April 23rd to April 29th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
			Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	70	33	85·6	77·8	81·6	+ 1·5	43	+ 10	4	− 8	4	0	0·61	15	− 2	6·0	+1·3	40	1015
Eastern.																			
1. SCOTLAND, EAST ...	68	30	86·7	77·7	81·9	+ 1·6	49	+ 11	4	− 9	3	− 1	0·49	12	0	5·4	+0·3	36	1016
2. ENGLAND, N.E.	74	35	88 0	79·0	83·3	+ 2·6	60	+ 23	0	− 8	2	− 2	0·05	1	− 8	5·0	−0·2	34	1019
3. ENGLAND, EAST ...	76	32	90·1	79 3	84·4	+ 3·0	74	+ 26	0	− 8	1	− 3	0 04	1	− 9	8·7	+3·1	61	1020
4. MIDLAND COUNTIES ...	76	31	90·5	78 5	84·2	+ 2·7	72	+ 23	0	− 11	2	− 2	0·08	2	− 9	6·3	+1·2	44	1019
5. ENGLAND, S.E.	75	32	90·7	79·9	85·1	+ 3·0	82	+ 32	0	− 4	1	− 3	0·02	1	− 11	9·0	+3·3	59	1020
Western.																			
6. SCOTLAND, WEST ...	70	35	86·9	79·3	82·9	+ 1·8	55	+ 14	0	− 7	3	− 1	0·83	21	+ 4	4·8	−0·4	33	1017
7. ENGLAND, N.W.	72	35	88·4	79·7	83·8	+ 2·4	67	+ 25	0	− 5	1	− 3	0·22	5	− 8	5·6	+0·4	39	1018
8. ENGLAND, S.W.	73	35	88·9	79·9	84·2	+ 2·3	71	+ 24	0	− 3	2	− 2	0·23	6	− 10	7·1	+1·4	50	1018
9. IRELAND, NORTH ...	66	30	86·1	78·7	82 2	+ 0·9	46	+ 4	0	− 5	4	0	1·10	28	+ 13	4·5	−0·4	31	1015
10. IRELAND, SOUTH ...	69	38	87·3	80·8	83·9	+ 1·8	68	+ 19	0	− 3	4	0	1·46	37	+ 20	4·3	−1·0	30	1015
11. ENGLISH CHANNEL ...	71	44	88·3	81·6	84·8	+ 1·9	78	+ 23	0	0	1	− 3	0·03	1	− 12	8·3	+1·6	59	1018

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 9 Weeks, February 27th to April 29th, 1916.

0. SCOTLAND, NORTH ...	70	20	80·1	74·6	77·2	− 0·6	101	− 56	255	+ 22	45	+ 3	6·46	163	− 33	3·2	−0·5	25	1008
Eastern.																			
1. SCOTLAND, EAST ...	68	18	80·1	73·9	76·9	− 1·0	124	− 78	313	+ 60	41	+ 6	6·20	157	+ 47	3·4	−0·6	27	1008
2. ENGLAND, N.E.	74	20	81·3	75·1	78·1	− 0·5	179	− 30	221	+ 27	42	+ 9	5·36	135	+ 48	3·6	−0·8	29	1008
3. ENGLAND, EAST ...	76	24	82·3	75·3	78·6	− 0·4	219	− 54	201	− 4	39	+ 7	5·45	137	+ 56	4·0	−0·5	32	1007
4. MIDLAND COUNTIES ...	76	21	82·1	74·6	78·2	− 0·8	220	− 63	243	+ 31	38	+ 8	5·95	152	+ 61	3·5	−0·6	28	1008
5. ENGLAND, S.E.	75	18	82·8	75·7	79·2	− 0·5	254	− 36	175	+ 29	37	+ 8	5·72	145	+ 55	4·3	−0·2	34	1007
Western.																			
6. SCOTLAND, WEST ...	70	17	81·2	74·9	77·9	− 0·8	162	− 49	218	+ 38	35	0	5·35	137	− 29	3·7	−0·5	29	1009
7. ENGLAND, N.W.	72	8	81·4	75·4	78·3	− 0·8	179	− 47	199	+ 42	35	+ 3	5·01	128	+ 11	3·7	−0·3	29	1009
8. ENGLAND, S.W.	73	17	82·2	75·5	78·7	− 1·1	224	− 59	193	+ 72	35	+ 3	5·62	144	+ 8	4·8	+0·2	39	1008
9. IRELAND, NORTH ...	66	18	81·5	75·1	78·2	− 1·1	167	− 79	200	+ 54	41	+ 2	5·63	144	+ 9	3·4	−0·6	27	1009
10. IRELAND, SOUTH ...	69	20	82·3	75·9	79·0	− 1·2	226	− 80	162	+ 53	44	+ 9	5·56	140	− 9	3·9	−0·6	32	1010
11. ENGLISH CHANNEL ...	71	30	83·0	77·8	80·3	− 0·8	271	− 65	64	+ 25	37	+ 2	5·71	143	+ 30	5·4	0·0	43	1008

THE YEAR.—Aggregates, &c., for the Period of 17 Weeks, January 2nd to April 29th, 1916.

0. SCOTLAND, NORTH ...	70	20	80·1	74·8	77·4	+ 0·3	203	− 8	433	− 94	92	+ 9	21·94	556	+105	2·4	−0·2	24	1006
Eastern.																			
1. SCOTLAND, EAST ...	68	7	80·1	74·1	77·1	+ 0·1	220	− 43	557	− 32	77	+11	12·48	318	+ 95	2·9	−0·1	27	1008
2. ENGLAND, N.E.	74	20	81·3	75·3	78·3	+ 0·6	339	+ 60	373	− 89	70	+ 8	8·38	213	+ 48	2·9	−0·3	28	1010
3. ENGLAND EAST ...	76	24	81·8	75·5	78·6	+ 0·8	388	+ 38	353	−154	72	+11	9·97	251	+ 94	3·1	−0·3	29	1011
4. MIDLAND COUNTIES ...	76	21	81·8	75·1	78·4	+ 0·6	392	+ 19	402	−110	70	+11	10·35	264	+ 77	2·8	−0·2	26	1011
5. ENGLAND, S.E.	75	15	82·4	76·1	79·2	+ 0·6	454	+ 61	294	− 82	73	+16	10·86	276	+ 85	3·3	0·0	30	1012
Western.																			
6. SCOTLAND, WEST ...	70	17	81·0	75·3	78·1	+ 0·1	290	− 1	355	− 57	80	+ 9	14·21	362	− 8	2·8	−0·2	27	1009
7. ENGLAND N.W.	72	8	81·5	76·1	78·7	+ 0·5	346	+ 37	306	− 73	74	+ 9	11·45	291	+ 44	2·7	−0·2	26	1011
8. ENGLAND, S.W.	73	17	82·0	76·4	79·1	+ 0·1	418	+ 1	279	− 17	76	+11	13·63	350	+ 54	3·4	0·0	32	1012
9. IRELAND NORTH ...	66	18	81·6	75·6	78·6	0·0	339	− 17	322	− 16	85	+ 9	12·07	308	+ 22	2·8	−0·1	27	1010
10. IRELAND, SOUTH ...	69	20	82·5	76·4	79·4	− 0·1	447	− 24	241	− 14	92	+23	12·75	322	0	3·0	−0·3	28	1013
11. ENGLISH CHANNEL ...	71	30	82 9	78·5	80·6	+ 0·1	543	+ 11	85	− 24	80	+ 8	12·67	319	+ 71	3·8	−0·3	35	1013
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	m.m.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A. Acting Superintendent of Statistics, South Kensington, S.W., May 4th, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) No. 18. SUNDAY, APRIL 30TH, TO SATURDAY, MAY 6TH, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE EIGHTEENTH WEEK OF 1916.

Fine sunny conditions prevailed over the whole country at the beginning of the week but these soon gave place to a much more unsettled type. On Tuesday rain fell generally and temperature, which had been high in the south, showed a considerable decrease. During the last days of the week temperature rose again in the south-east and a large temperature gradient was established between the south-east of the country and all other districts, where much lower temperatures prevailed. With this was associated steady precipitation in the north-west, and at some stations in the south of Scotland and Ireland rain continued almost without interruption throughout Friday and Saturday. Mean temperature was 4°·9 A. (8°·8 F.) in excess of the normal in the English Channel and 2°·9 A. (5°·2 F.) in the south-east of England. Over other parts of the country departures were not large. The highest temperature of the week exceeded 294° A. (70° F.) at stations in the south-east of the country but in the north of Scotland and the north-eastern districts to which the warm spells of the south did not extend the thermometer did not touch 289° A. (60° F.) throughout the week. Temperature in the screen fell to the freezing point at a few stations in the north. These minima occurred generally on the night of the 3rd. A reading of 267° A. (21° F.) was recorded from the exposed thermometer on the grass at Crathes. Rain was generally in excess, the only exception being the east of England which showed a slight deficiency. The fall amounted to about three times the normal in Scotland East, England North-East and the whole of Ireland. These excesses were largely due to heavy falls which occurred at many stations on Friday, 64 mm. at Shankill, Dublin, 44 mm. at Birr Castle and over 35 mm. at several other places in Ireland. On the same day over 25 mm. was reported from several stations in Scotland. Thunderstorms occurred at stations in the south on Monday, and more generally over the east and south of the country on Friday and Saturday. Sunshine was scanty over the east of the country but more moderate in West Scotland and Ireland. Sea temperature showed a good deal of variation, + 2°·4 A. (4°·4 F.) at Eastbourne in the south to − 1°·8 A. (3°·2 F.) at Wick in the north.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		ENGLAND, E.		NORTH WALES.		ENGLAND, S.W.		IRELAND, S.	
	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.
		m/s		m/s		m/s		m/s		m/s
South	2	2·8	2	1·9	1	1·9	1	3·1	¼	0·9
North	4	5·8	5	3·6	5	3·6	5	2·5	6	5·4
West	4	3·2	2	2·5	1	1·9	2	8·2	2	2·5
East	3	2·7	5	4·8	6	7·6	5	3·5	5	2·7
Calm	0	—	0	—	0	—	¼	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH AVERAGE.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ... Warmth ...	Deficient	Deficient	Moderate	Unusual	Moderate	Very unusual	Moderate	Moderate	Unusual	Deficient	Moderate	Unusual
Rainfall ...	Heavy	Very heavy	Very heavy	Moderate	Heavy	Heavy	Heavy	Heavy	Heavy	Very heavy	Very heavy	Moderate
Sunshine ...	Moderate	Scanty	Scanty	Scanty	Scanty	Scanty	Moderate	Moderate	Very scanty	Moderate	Abundant	Very scanty

II.—THE SPRING SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SPRING. 10 weeks from Feb. 27th, 1916. Warmth ...	1, 4, 5	1, 2, 7	2, 4, 4	2, 6, 2	1, 6, 3	2, 5, 3	1, 5, 4	1, 5, 4	2, 4, 4	0, 5, 5	1, 5, 4	2, 3, 5
Rainfall ...	4, 3, 3	5, 4, 1	6, 1, 3	7, 2, 1	7, 1, 2	6, 3, 1	4, 2, 4	4, 2, 4	4, 3, 3	4, 3, 3	2, 5, 3	3, 6, 1
Sunshine ...	1, 6, 3	1, 4, 5	2, 3, 5	3, 1, 6	3, 1, 6	3, 1, 6	2, 5, 3	2, 5, 3	3, 4, 3	0, 7, 3	2, 5, 3	3, 1, 6

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.

Increment of 1° A. = increment of $\frac{9}{5}$° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(8088—19.) Wt. 79a—736. 450 5/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.							Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND
		Highest.	Date.	Lowest.	Date.	Mean for the Week.										Grass Min.		Earth 1 ft.		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Frosts	Lowest Reading.	Mean	Deviation from Average.	Mean.	Deviation from Average
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.																							
a, Islands.. *p Baltasound*	*31*																						*Baltasound.*
a Lerwick	54	50	30th	35	4th	45·9	38·7	42·1	- 1·0	6	2·14	54	—	5·2	- 0·2	33	•	•	•	•	•	•	Deerness.
a Stornoway	51	53	1st	34	4th	49·0	37·7	43·0	- 1·8	5	0·60	15	- 1	5·6	- 0·1	36	•	•	•	•	•	•	Stornoway.
a Castlebay, Barra Isd.	*37*	*52*	*1st*	*36*	*4th*	*48·4*	*40·4*	*44·2*	*- 1·5*	*4*	*0·52*	*13*	—	*7·5*	—	*49*	•	•	•	•	•	•	*Castlebay.*
b, Mainland. *a* Wick	81	50	30th	36	1st	45·7	40·3	42·8	- 2·2	5	1·43	36	+ 25	•	•	•	•	•	•	•	•	•	
p Strathpeffer	200	55	30th	34	4th	49·0	37·1	42·7	- 3·1	4	1·03	26	+ 15	3·9	- 1·3	25	•	•	•	•	•	•	Strathpeffer.
p Glencarron	500	56	30th	33	4th	48·7	35·9	41·9	- 2·7	5	1·31	33	+ 2	•	•	•	•	•	•	•	•	•	
p Fort Augustus	68	55	1, 4	34	4th	50·3	37·3	43·4	- 2·2	6	1·26	32	+ 19	2·8	- 1·3	18	•	•	•	•	•	•	Fort Augustus.
p Fort William	171	64	30th	35	4th	53·0	39·6	45·9	- 0·8	4	0·66	17	- 5	•	•	•	•	•	•	•	•	•	
														4·5	—	29	2	21	47·2	+1·9	44·1	+0·5	Crathes.
p Gordon Castle	101	56	2nd	33	4th	49·6	36·3	42·6	- 3·5	5	1·96	50	+ 40	*3·8*	—	*25*	•	•	•	•	•	•	*Gordon Castle.*
a Nairn	82	57	30th	29	4th	50·0	35·9	42·5	- 3·5	5	1·39	35	+ 26	3·7	—	24	•	•	•	•	•	•	Nairn.
a Aberdeen	46	53	30th	34	30th	48·9	39·9	44·1	- 1·6	4	1·65	42	+ 30	5·5	- 0·2	36	•	•	•	•	44·0	+0·6	Aberdeen.
a Balmoral	930	59	30th	29	4th	50·4	34·6	42·0	- 0·8	4	1·38	35	+ 22	•	•	•	1	28	•	•	•	•	Balmoral.
p Crieff	432	60	30th	32	6th	52·4	35·6	43·5	- 3·4	5	1·38	35	+ 22	5·5	•	36	•	•	•	•	•	•	Balruddery.
														•	•	•	•	•	•	•	•	•	
a Leith	18	54	3, 4	39	4th	49·1	40·6	44·6	- 2·4	4	1·22	31	+ 22	*3·9*	—	*26*	3	24	•	•	•	•	*West Linton.*
a West Linton	769	57	2nd	30	2nd	48·9	34·1	41·1	- 2·0	4	1·60	41	—	2·6	- 2·6	17	1	29	•	•	•	•	Marchmont.
p Marchmont	498	56	2nd	35	4th	49·9	37·3	43·2	- 1·6	5	1·21	31	+ 18	3·9	—	26	0	34	•	•	•	•	Edinburgh.
a Edinburgh	*441*	*53*	*3, 4*	*37*	*1, 2, 6*	*48·1*	*38·6*	*43·1*	—	*4*	*1·28*	*33*	—										
6. *a*, SCOTLAND, W.																							
a Poltalloch	132	60	30, 2	41	30th	54·1	45·1	49·3	+ 1·9	4	1·18	30	+ 15	•	•	•	•	•	•	•	•	•	
p Glasgow Observatory	180	58	30, 2	37	5, 6	52·3	39·4	45·5	- 2·0	4	1·56	40	+ 27	6·2	+ 1·4	41	1	29	•	•	•	•	Glasgow.
p Rothesay	170	59	30th	35	4, 6	51·0	38·0	44·1	- 3·6	4	1·05	27	+ 10	*6·4*	—	*42*	0	31	50·6	•	46·9	+1·6	*Rothesay.*
a Kilmarnock	90	62	30th	36	2nd	55·1	39·6	46·9	- 0·3	3	1·02	26	—	*5·7*	—	*38*	•	•	49·0	•	45·6	•	*Kilmarnock.*
														•	•	•	0	35	•	•	•	•	
a Colmonell	170	64	1st	39	30, 4, 6	54·4	41·0	47·3	- 0·2	4	1·43	36	+ 22	*5·1*	—	*34*	2	30	49·6	•	46·5	•	*Dumfries.*
a Dumfries	160	65	30th	39	30, 1, 2	54·1	40·0	46·6	- 1·1	5	1·05	27	+ 13	*3·5*	—	*23*	•	•	•	•	•	•	*Eskdalemuir.*
Eskdalemuir	*799*	*56*	*30th*	*29*	*4th*	*49·4*	*35·6*	*42·1*	—	*5*	*1·65*	*42*	—	•	•	•	•	•	•	•	•	•	
p Cally, Gatehouse	120	67	30th	37	4th	54·0	39·4	46·3	- 0·9	5	1·77	45	+ 27										
b, I. OF MAN. *p* Douglas	277	63	30th	40	4th	52·6	42·4	47·2	+ 0·2	4	1·68	43	+ 28	5·9	- 0·8	39	0	35	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	55	3rd	36	4th	48·1	38·9	43·2	- 2·5	5	1·67	42	+ 31	2·7	—	18	2	25	46·2	+1·3	45·5	+1·5	Cockle Park.
a Tynemouth	71	55	4th	38	4th	48·1	40 0	43·8	- 2·3	3	1·10	28	+ 19	•	•	•	•	•	•	•	•	•	Tynemouth
p Durham	336	55	4th	32	4th	49·6	37·6	43·2	- 2·6	3	1·17	30	+ 20	4·1	- 0·6	29	2	26	•	•	•	•	Durham.
a, North.. *p* Rounton	249	58	3rd	33	3, 4	50·9	37·9	44·0	- 2·2	4	1·64	42	+ 33	•	•	•	2	24	47·6	•	•	•	Rounton.
a West Witton	*605*	*59*	*30th*	*32*	*4th*	*51·1*	*37·0*	*43·6*	—	*3*	*1·57*	*40*	—	•	•	•	2	26	47·3	•	43·0	•	*West Witton.*
p Scarborough†	100	61	3rd	39	1st	51·7	40·9	46·0	- 0·6	3	0·82	21	+ 11	3·0	—	20	•	•	•	•	46·4	•	Scarborough.
p York	56	65	30th	36	4th	53·9	40·0	46·5	- 1·9	3	1·14	29	+ 18	3·4	- 1·7	23	•	•	49·6	+2·3	46·5	+1·0	York.
b, South.. *a* Spurn Head	26	56	3rd	40	30, 1, 2	50·3	41·4	45·6	- 1·8	4	0·71	18	+ 11	*2·0*	—	*13*	•	•	•	•	•	•	*Spurn Head*
a Lincoln	58	61	30th	40	3rd	54·3	42·6	48·1	- 0·5	4	1·06	27	+ 17	•	•	•	•	•	51·2	+4·0	47·3	+1·8	Lincoln.
a Fulbeck	180	59	30th	39	3rd	52·7	42·1	47·1	- 1·2	5	0·83	21	+ 11	4·0	—	27	1	29	50·8	+0·7	46·4	- 0·4	Rauceby.
														3·6	—	23	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																							
p Cromer	196	65	6th	42	30, 3	56·6	43·7	49·8	+ 3·1	4	0·44	11	—	6·1	—	41	•	•	•	•	•	•	Cromer.
p Little Massingham	280	64	6th	41	30, 1, 3	57·7	42·6	49·7	+ 1·5	3	0·33	8	- 2	4·4	- 1·5	30	0	32	•	•	•	•	Lit. Massingham
a, North.. *a* Yarmouth	13	64	6th	45	2-4	55·1	45·7	50·1	+ 2·9	2	0·12	3	- 7	6·3	—	43	•	•	53·1	+2·0	49·6	+0·3	Yarmouth.
a Norwich	93	68	5th	44	30, 2, 3	60·6	45·5	52·6	+ 4·9	3	0·34	9	—	*5·7*	—	*39*	0	38	53·1	•	•	•	*Norwich.*
a Geldeston	37	64	4th	45	30-3	54·7	46·7	50·5	+ 2·5	2	0·28	7	- 3	6·1	- 0·2	41	•	•	•	•	•	•	Geldeston.
p Cambridge	41	68	30, 4	42	30, 3	62·1	43·9	52·5	+ 3·4	3	0·35	9	- 1	3·6	- 2·4	24	0	34	52·7	+3·1	48·8	+0·8	Cambridge.
a Clacton-on-Sea	54	69	5th	46	3rd	59·0	48 1	53·2	+ 5·3	2	0·09	2	—	6·1	—	41	0	38	52·3	+3·3	49·6	+1·0	Clacton.
b, South.. *a* Rothamsted	424	67	30th	41	30th	60·4	43·4	51·4	+ 3·2	4	0·39	10	- 1	3·6	- 2·1	24	0	34	50·3	•	•	•	Rothamsted.
p Tottenham	51	70	30, 4	44	30th	64·4	46·3	54·8	+ 5·4	5	0·51	13	—	*4·2*	—	*29*	0	40	•	•	49·4	+1·6	Tottenham.
4. MIDLAND COUNTIES.																							
a North.. *a* Harrogate	479	59	30th	33	4th	51·3	37·1	43·8	- 2·6	3	1·19	30	+ 18	4·3	—	29	2	26	46·8	+1·6	46·4	+1·7	Harrogate.
p Buxton	*937*	*61*	*30th*	*35*	*1, 4*	*51·0*	*37·4*	*43·8*	*- 0·8*	*3*	*0·95*	*24*	+ 7	*4·8*	—	*32*	2	27	48·2	+1·7	43·4	- 0·8	*Buxton.*
														3·7	—	25	0	34	48·9	+2·3	45 1	+0·9	Sheffield.
a Bawtry	65	65	30th	40	1-3	55·3	41·1	47·8	- 0·5	4	1·09	28	+ 19	3·8	- 1·1	26	0	37	50·7	•	47·8	•	Worksop.
a Nottingham	82	62	30th	39	3rd	53·0	41·9	47·1	- 1·2	4	1·26	32	+ 22	3·5	—	23	0	36	48·4	+0·7	46·1	+0·9	Nottingham.
b, East.. *p* Birmingham, Edgbsn.	535	64	30th	40	3rd	54·4	41·9	47·8	- 0·4	4	0·92	23	+ 12	2·3	—	15	0	37	46 5	+0·4	45·1	+0·3	Birmingham.
a Raunds	203	64	30, 6	39	3rd	*57·9*	41·7	49·3	+ 1·0	3	0·39	10	—	*3·1*	—	*21*	0	31	50·2	•	46·1	•	*Raunds.*
p Oxford	268	67	30th	43	30, 1	58 7	44·9	51·4	+ 1·9	7	0 85	22	+ 13	2·6	- 3·1	18	0	39	•	•	•	•	Oxford.
														•	•	•	0	35	•	•	•	•	
a Cheadle	646	65	30th	36	1st	55·0	40·0	47·1	+ 0·1	4	0·85	22	+ 10	•	•	•	0	31	•	•	•	•	Cheadle.
p Shrewsbury	191	67	30th	39	30, 1	56·9	41·1	48·5	- 0·5	3	0·87	22	—	•	•	•	0	31	•	•	•	•	Shrewsbury.
c, West.. *a* Hereford§	291	66	30th	39	30, 1	55·4	42·1	48·4	- 0·8	5	0·95	24	+ 13	*2·4*	—	*16*	0	31	50·6	•	48·0	•	*Malvern.§*
a Bath	66	68	30th	43	1st	60·1	45·1	52·2	+ 2·7	6	0·88	22	+ 11	2·2	—	15	•	•	53·1	+2·6	48·8	+0·2	Bath.
														5·1	—	35	0	45	55·5	+4·8	49·9	+1·6	Worthing.
5. ENGLAND, S.E.																							
a Marlborough	424	67	30th	42	30, 1	60·9	45·4	52·7	+ 5·1	6	0·68	22	+ 11	2·3	- 3·1	16	0	33	51·5	•	47·8	•	Marlborough.
a Margate	53	72	4th	48	1, 3, 4	59·9	49·3	54·3	+ 5·3	3	0·16	4	- 4	6 1	+ 0·3	41	0	38	54·7	+5·3	50·6	+3·6	Margate.
a Wisley, Surrey	150	72	5th	41	30th	63·7	46 6	54·3	+ 4·6	4	0·69	18	—	4·0	—	27	0	32	52·0	+2·9	47·7	+0·1	Wisley.
p Salisbury (Wilton)	180	70	30th	41	30, 1	63·7	45·4	54·0	+ 4·4	6	1·15	29	+ 16	•	•	•	0	38	53·7	•	•	•	Salisbury.
a Tunbridge Wells	354	75	5th	44	4th	64·4	47·7	55·6	+ 7·1	4	1·05	27	+ 17	5·3	- 0·8	36	0	34	53·5	+3·8	48·6	•	Tunbridge Wells.
														•	•	•	•	•	•	•	•	•	
a Dungeness	21	66	5th	44	4th	59·1	48·4	53·4	+ 4·9	4	0 43	11	+ 4	•	•	•	•	•	•	•	•	•	Littlestone.
p Hastings	178	74	5th	46	4th	64·3	49·6	56·5	+ 7·3	4	0·62	16	+ 7	6·5	—	45	0	44	56·1	•	48·7	•	Hastings.
a Ventnor	59	70	30th	45	4th	62·7	49·4	55·7	+ 5·3	5	0·61	15	+ 6	4·2	- 2·6	29	•	•	•	•	•	•	Ventnor.
														4·1	- 2·2	28	0	42	•	•	•	•	Southampton.
LONDON. *p* Kew	18	70	4, 5	45	30, 4	63·9	46·9	54·9	+ 5·5	4	0·74	19	+ 10	3 7	- 2·1	25	0	38	53·1	+3·9	48·6	+1 0	Kew.
a Westminster	*27*	*71*	*5th*	*45*	*30th*	*64·6*	*47·4*	*55·5*	*+ 5·3*	*5*	*0·77*	*20*	*+ 11*	*4·3*	*- 0·4*	*29*	0	44	•	•	•	•	*Westminster.*
a Greenwich	*155*	*75*	*5th*	*43*	*30th*	*65·0*	*48·7*	*56·3*	*+ 5·5*	*4*	*0·56*	*14*	*+ 6*	*4·5*	*- 1·0*	*31*	0	35	•	•	•	•	*Greenwich.*
a Hampstead	*450*	*68*	*4th*	*41*	*30th*	*61·4*	*44·8*	*52 6*	—	*5*	*0·75*	*19*	—	*5·1*	—	*35*	0	37	•	•	•	•	*Hampstead.*
a Camden Square	*110*	*75*	*1st*	*44*	*30th*	*67·0*	*47·3*	*56·6*	—	*6*	*0·63*	*16*	—	*4·3*	—	*29*	0	41	•	•	•	•	*Camden Square.*
														3·8	—	26	•	•	•	•	•	•	Hoylake.
7. *a*, ENGLAND, N.W.														•	•	•	0	36	49·2	•	45·6	•	Aspatria.
p Aspatria	250	64	30th	36	6th	52·7	39·6	45·8	- 0·7	5	1·13	29	+ 16	5·4	- 0·3	36	2	21	49·7	+3·2	45·3	+1·0	Newton Rigg.
p Newton Rigg	559	64	30th	33	4th	53·7	37·1	44·9	- 0·9	3	1·26	32	+ 19	5·5	0·0	37	2	25	•	•	•	•	Stonyhurst.
p Stonyhurst	375	63	30th	32	4th	54·0	38·3	45·7	- 1·2	3	0·99	25	+ 9	5·9	0·0	39	3	24	51·3	•	47·2	•	Blackpool.
p Blackpool	66	66	30th	34	4th	55·6	39·7	47·2	- 0·5	3	1·40	36	+ 24	*5·5*	—	*37*	2	23	50·9	+0·7	49·4	+1·3	*Southport.*
a Southport	*37*	*68*	*30th*	*33*	*4th*	*56·4*	*39·1*	*47·2*	*- 0·5*	*3*	*0·98*	*23*	*+ 11*	*4·4*	—	*30*	•	•	•	•	•	•	*Liverpool.*
a Liverpool (Bidston)	188	66	30th	?37	4th	56·0	41·1	48·1	- 0·1	4	0·98	25	+ 15	4·4	—	30	0	33	49·3	+2·8	47·3	+1·3	*Manchester (City)*
a Hawarden Bridge	22	71	30th	39	30, 4	59·1	42·7	50·4	+ 1·0	3	0·82	21	+ 12	4·4	—	30	0	33	49·3	+2·8	47·3	+1·3	" (Whit. Park)
p Manchester (Whit. Pk.)	125	66	30th	37	4th	55·9	41·7	48·4	- 1·1	3	0·96	24	+ 13	*4·0*	*- 0·4*	*27*	•	•	•	•	•	•	
														5·2	- 0·7	35	•	•	•	•	•	•	Llandudno.
b NORTH WALES. *p* Llandudno	71	57	30, 1	39	3, 4	53·0	42·1	47·2	- 1·5	4	1·13	29	+ 19	*5·4*	—	*33*	•	•	•	•	•	•	*Holyhead.*
Holyhead	15	57	30, 1, 2	42	4th	53·0	44·1	48·3	+ 0·2	4	1·59	38	+ 26	5·6	—	24	•	•	46·9	- 0·2	46·3	- 0·6	Bettws-y-Coed.
p Bettws-y-Coed	148	67	30th	32	4th	56·1	38·4	46·7	- 1·6	3	1·16	29	—	3·6	—	24	•	•	•	•	•	•	Aberdovey.

† Earth temperature at 3 ft

The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.				Mean for the Week.				Rainfall.			Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average	
	Ft.	°F		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														3·7	—	25	•	•	•	•	•	•	Aberystwyth.
a Llangammarch Wells	550	65	30, 1	37	1, 2	55·7	39·8	47·3	+ 0·3	6	0·66	17	—	2·3	—	16	2	30	49·2	+1·6	46·7	+0·8	Llangammarch.
a Pembroke	149	61	30, 1	44	4th	54·3	47·1	50·5	+ 2·3	4	0·71	18	+ 7	3·5	− 3·0	24	•	•	•	•	•	•	Pembroke.
p Cardiff	202	65	30th	43	30, 2, 3	57·0	44·1	50·2	0·0	6	1·28	33	+ 19	*3·7*	—	*25*	0	38	51·4	+2·2	47·5	+0·7	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	71	30th	42	1st	59·0	44·9	51·5	+ 1·6	6	1·17	30	+ 17	*2·3*	—	*16*	0	40	•	•	•	•	*Clifton.*
a Shaftesbury	722	66	30th	42	30, 1	58·7	44·4	51·1	+ 3·0	6	1·11	28	+ 15	•	•	•	•	•	51·8	•	47·8	•	Shaftesbury.
a Arlington	613	65	30th	43	2nd	56·3	44·9	50·3	+ 2·8	6	0·90	23	+ 6	•	•	•	•	•	•	•	•	•	Arlington.
a Newquay	*190*	*68*	*30th*	*47*	*3, 4, 6*	*56·9*	*48·3*	*52·3*	+ *3·4*	*6*	*0·59*	*15*	+ *5*	3·1	− 3·3	21	•	•	53·6	•	49·6	•	Newquay.
a Cullompton	202	67	30, 1	44	30th	59·7	46·7	52·8	+ 3·5	6	1·30	33	+ 20	2·1	− 3·7	14	0	39	53·3	•	•	•	Cullompton.
a Portland Bill	12	63	1, 5	46	4th	57·4	48·0	52·4	+ 3·1	4	0·63	16	—	*3·5*	—	*24*	•	•	•	•	•	•	*Weymouth.*
p Plymouth	116	68	30th	48	4th	61·4	50·9	55·8	+ 5·5	5	0·64	16	+ 3	2·5	− 3·9	17	•	•	54·6	+3·2	49·7	•	Plymouth.
a Falmouth	167	65	30th	48	3-6	57·3	49·1	53·0	+ 3·3	5	0·66	17	+ 3	3·2	− 3·7	22	0	42	55·4	•	51·6	•	Falmouth.
9. IRELAND, N.																							
a, West .. *a* Malin Head	208	53	2nd	39	6th	49·1	42·0	45·3	− 1·7	4	1·34	34	+ 22	*8·1*	—	*54*	•	•	•	•	•	•	*Malin Head.*
a Blacksod Point ..	?	54	2nd	38	4th	50·7	41·1	45·6	− 2·9	2	0·75	19	+ 3	•	•	•	•	•	•	•	•	•	•
p Markree Castle ..	122	67	30th	32	4th	56·0	38·9	46·9	− 0·4	3	1·11	28	+ 13	6·5	+ 1·0	43	1	29	51·5	•	46·8	•	Markree Castle.
a Birr Castle	175	64	2nd	36	4th	54·9	40·3	47·2	− 0·9	3	2·80	71	+ 58	*7·1*	+ *1·5*	*48*	•	•	•	•	•	•	*Birr Castle.*
b, East .. *p* Armagh	196	62	30th	36	4th	53·4	39·9	46·3	− 1·2	3	2·62	67	+ 54	5·9	+ 0·5	39	0	35	51·0	+1·8	47·4	+0·2	Armagh.
a Donaghadee	101	52	1st	39	4th	48·4	41·4	44·7	− 2·6	3	1·42	36	+ 24	•	•	•	•	•	•	•	•	•	•
10. IRELAND, S.																							Trinity Coll.
p Dublin, City	47	57	30, 3	40	4th	52·1	44·6	48·1	− 1·7	5	2·86	73	+ 62	6·2	+ 0·1	42	2	27	•	•	•	•	Phœnix Park.
a, East .. *a* Kilkenny	212	65	30th	33	4th	55·6	42·1	48·5	+ 0·1	2	1·77	45	+ 32	•	•	•	0	37	•	•	•	•	Dublin City.
a Waterford	20	67	2nd	40	4th	57·6	44·1	50·5	+ 1·8	3	1·65	42	+ 29	•	•	•	•	•	•	•	•	•	•
a Seskin, Carrick-on-Suir	*541*	*66*	*30th*	*36*	*4th*	*55·1*	*41·0*	*47·6*	—	*3*	*1·81*	*46*	—	*6·4*	—	*44*	0	32	•	•	•	•	*Seskin.*
b, West .. *a* Birr Castle	175	64	2nd	36	4th	54·9	40·3	47·2	− 0·9	3	2·80	71	+ 58	7·1	+ 1·5	48	•	•	•	•	•	•	Birr Castle.
a Foynes	50	64	30th	37	6th	55·1	42·4	48·4	− 0·9	2	1·07	27	+ 14	•	•	•	•	•	•	•	•	•	•
a Cahir	199	67	30, 1	33	4th	56·3	41·7	48·6	+ 0·2	2	1·71	43	—	•	•	•	•	•	•	•	•	•	•
a Killarney	174	69	30, 2	37	4, 6	58·9	42·9	50·4	+ 1·5	4	1·66	42	+ 24	•	•	•	•	•	•	•	•	•	•
a Valencia	30	66	30th	38	4th	54·6	44·3	49·1	− 0·6	2	0·71	18	− 2	7·9	+ 1·9	54	•	•	•	•	•	•	Valencia.
a Roche's Point	32	63	30th	41	6th	55·3	45·6	50·2	+ 0·4	3	1·39	35	+ 20	5·8	—	40	•	•	•	•	•	•	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	61	30th	46	6th	54·4	48·3	51·2	+ 1·0	5	1·23	31	+ 21	3·4	− 3·4	23	•	•	•	•	•	•	Scilly.
a Jersey, St. Aubins ..	25	67	30, 5	46	3rd	63·4	50·3	56·5	+ 5·7	3	0·24	6	− 6	3·6	− 3·5	25	•	•	•	•	•	•	St. Heliers.
a Guernsey (Villa Carey)	180	67	4th	48	30, 1, 3, 4	60·9	49·1	54·7	+ 4·1	4	0·19	5	− 8	3·6	− 4·0	25	0	37	54·8	+3·5	50·9	+1·5	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday May, 9th, 1916.

DISTRICT AND STATION.	Height.			Distribution of Wind.								Extreme Velocities.				
	Above Mean Sea Level.	Above Ground.	Above Building.	Gales, force 8 or more.		High Winds, forces 6 and 7.		Fresh or Moderate Winds, forces 4 and 5.	Light Winds, forces 2 and 3.	Calms and Light Airs, forces 0 and 1.	No Record.	Highest Hourly Wind.			Highest Gust with Date and Time.	
				Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Velocity.	Date and Hour.			
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.		m/s.	d. h. m.
1. SCOTLAND, E.																
Dyce	305	75	‡15**	—	—	—	—	20	89	59	0	?	7	6th 6h.	14	6th 6 . 34
Aberdeen*	153	105 / 37	‡	—	—	—	—	40	98	30	0	NW.	9	6th 12h.	15	6th 12 . 0
Edinburgh	485	39 / 52	31 †	—	—	—	—	48	116	4	0	NE.	10	6th 7h.	16	6th 7 . 16
6. SCOTLAND, W.																
Eskdalemuir	850	50	22	—	—	—	—	—	—	—	—	—	—	—	—	— — —
Paisley	188	81	52	—	—	—	—	36	110	22	0	?	8	5th 18h.	17	5th 18 . 35
2. ENGLAND, N.E.																
Alnwick Castle	340	70	17	—	—	—	—	28	90	50	0	N.	10	6th 5h.	18	6th 5 . 33
South Shields	72	61	12	—	—	—	—	36	76	56	0	N. by E.	10	6th 7h.	16	6th 6 . 25
Spurn Head	66	40	‡	Record defective.												
3. ENGLAND, E.																
Gorleston	52	42	‡	—	—	1, 2	5	68	80	15	—	--	12	1st 18h.	15	1st 18 . 6
Shoeburyness	103	90	‡	—	—	1, 2, 6	17	65	67	9	10	NE.	13	1st 15h.	18	1st 21 . 18
4. MIDLAND COUNTIES																
Benson	270	84	‡	—	—	—	—	63	76	24	0	NE.	10	5th 24h.	15	5th 20 . 23
5. ENGLAND, S.E.																
Dover	271	40	‡	—	—	1st	4	61	65	35	3	—	11	1st 17h.	17	1st 21 . 10
Warlingham	642	33	‡	—	—	—	—	12	92	64	0	—	8	6th 15h.	14	6th 14 . 55
Brighton	261	53	6	—	—	—	—	69	46	16	37	—	10	30th 3h.	15	30th 0 . 55
Kew Observatory ..	82	65 / 6 / 22	†	—	—	—	—	51	82	35	0	SSW.	9	6th 14h.	15	6th 13 . 31
South Kensington ..	123	92	30	—	—	—	—	16	106	46	0	NNE.	7	1st 19h.	13	6th 14 . 50
7. ENGLAND, N.W.																
Carnforth	246	56	23	—	—	—	—	12	107	49	0	NNE.	7	5th 22h.	13	5th 16 . 15
Southport	80	62	48	—	—	1, 5, 6	12	101	54	1	0	ENE.	12	5th 16h.	17	5th 5 . 18
Holyhead*	60	40	‡	5th	1	30 to 2, 4 to 6	62	62	37	6	0	E. by N.	17	5th 23h.	22	5th 23 . 4
8. ENGLAND, S.W.																
Pendennis Castle§ ..	256	65	24	6th	1	30, 1, 5, 6	45	55	38	29	0	SSW.	17	6th 9h.	23	6th 13 . 43
Plymouth	185	88	2	—	—	5, 6	22	56	61	29	0	—	14	6th 3h.	18	6th 2 . 47
10. IRELAND, S.																
Quilty	100	40	‡	—	—	5, 6	37	62	55	14	0	—	15	6th 9h.	22	? ?
Weaver Pt.	160	30	‡	—	—	5, 6	29	65	48	6	20	—	14	6th 14h.	20	6th 14 . 40
11. ENGLISH CHANNEL.																
Scilly*	150	32 / 19	‡	—	—	6th	19	27	78	44	0	WSW.	14	6th 5h.	19	6th 4 . 43

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer. ** Above tops of trees.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory.
† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree", signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

EIGHTEENTH WEEK—April 30th to May 6th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
			Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	64	33	82·3	76·4	79·2	− 1·4	24	− 13	11	+ 2	5	0	1·20	30	+ 13	4·4	−0·6	29	1011
Eastern.																			
1. SCOTLAND, EAST ...	60	29	82·9	75·7	79·1	− 1·7	29	− 14	15	+ 5	5	+ 1	1·47	38	+ 26	4·3	−1·1	28	1011
2. ENGLAND, N.E.	65	32	83 6	77·6	80·4	− 0·8	31	− 10	5	0	4	+ 1	1·13	29	+ 19	3·5	−2·3	23	1009
3. ENGLAND, EAST ...	70	41	88·0	80·3	83·9	+ 1·8	67	+ 15	0	− 6	3	0	0·32	8	− 2	5·1	−1·1	34	1006
4. MIDLAND COUNTIES ...	68	33	86·2	78·4	82·1	0·0	46	− 8	1	− 8	4	+ 1	0·93	24	+ 13	3·2	−2·4	21	1007
5. ENGLAND, S.E.	75	41	90·1	81·7	85·7	+ 2·9	90	+ 34	0	− 2	5	+ 2	0·68	17	+ 7	4·6	−1·7	31	1005
Western.																			
6. SCOTLAND, WEST ...	67	35	84·9	77·8	81·2	− 0·4	39	− 7	4	0	4	0	1·34	34	+ 17	6·1	+0·5	40	1010
7. ENGLAND, N.W.	71	32	85·7	77·7	81·5	− 0·4	43	− 3	4	+ 1	4	0	1·13	29	+ 16	4·7	−1·0	32	1007
8. ENGLAND, S.W.	71	37	87·3	80·8	83·8	+ 1·4	67	+ 16	0	− 2	5	+ 1	0·91	23	+ 9	2·9	−3·4	20	1005
9. IRELAND, NORTH ...	67	32	84·2	77·8	80·8	− 1·0	34	− 12	4	+ 1	3	− 1	1·67	43	+ 28	6·2	+0·9	41	1009
10. IRELAND, SOUTH ...	69	33	86·1	79·2	82·4	− 0·3	49	− 5	0	− 2	3	− 1	1·74	44	+ 28	6·8	+0·9	45	1007
11. ENGLISH CHANNEL ...	67	46	88·3	82·5	85·3	+ 4·9	85	+ 24	0	0	4	+ 1	0·55	14	+ 3	3·5	−4·1	25	1003

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 10 Weeks, February 27th to May 6th, 1916.

0. SCOTLAND, NORTH ...	70	20	80·3	74·7	77·4	− 0·7	125	− 69	266	+ 24	50	+ 3	7·66	193	− 20	3·3	−0·5	26	1008
Eastern.																			
1. SCOTLAND, EAST ...	68	18	80·4	74·1	77·1	− 1·1	153	− 92	328	+ 65	46	+ 7	7·67	195	+ 73	3·5	−0·7	27	1008
2. ENGLAND, N.E.	74	20	81·6	75·3	78·3	− 0·5	210	− 40	226	+ 27	46	+10	6·49	164	+ 67	3·6	−0·9	28	1008
3. ENGLAND, EAST ...	76	24	82·9	75·8	79·2	− 0·1	286	− 39	201	− 10	42	+ 7	5·77	145	+ 54	4·1	−0·6	32	1007
4. MIDLAND COUNTIES ...	76	21	82·5	75·0	78·6	− 0·7	266	− 71	244	+ 23	42	+ 9	6·88	176	+ 74	3·5	−0·7	27	1008
5. ENGLAND, S.E.	75	18	83·6	76·3	79·8	− 0·2	344	− 2	175	+ 27	42	+10	6·40	162	+ 62	4·3	−0·4	34	1007
Western.																			
6. SCOTLAND, WEST ...	70	17	81·5	75·2	78·3	− 0·7	201	− 56	222	+ 38	39	0	6·69	171	− 12	3·9	−0·4	31	1009
7. ENGLAND, N.W.	72	8	81·8	75·7	78·6	− 0·8	222	− 50	203	+ 43	39	+ 3	6·14	157	+ 27	3·8	−0·4	30	1008
8. ENGLAND, S.W.	73	17	82·7	76·0	79·2	− 0·9	291	− 43	193	+ 70	40	+ 4	6·53	167	+ 17	4·6	−0·1	37	1008
9. IRELAND, NORTH ...	67	18	81·7	75·4	78·4	− 1·2	201	− 91	204	+ 55	44	+ 1	7·30	187	+ 37	3·7	−0·4	29	1009
10. IRELAND, SOUTH ...	69	20	82·7	76·2	79·3	− 1·1	275	− 85	162	+ 51	47	+ 8	7·30	184	+ 19	4·2	−0·4	33	1010
11. ENGLISH CHANNEL ...	71	30	83·5	78·3	80·8	− 0·6	356	− 41	64	+ 25	41	+ 3	6·26	157	+ 33	5·2	−0·4	41	1008

THE YEAR.—Aggregates, &c., for the Period of 18 Weeks, January 2nd to May 6th, 1916.

0. SCOTLAND, NORTH ...	70	20	80·2	74·9	77·5	+ 0·2	227	− 21	444	− 92	97	+ 9	23·14	586	+118	2·5	−0·2	24	1007
Eastern.																			
1. SCOTLAND, EAST ...	68	7	80·3	74·2	77·2	0·0	249	− 57	572	− 27	82	+12	13·95	356	+121	2·9	−0·3	27	1008
2. ENGLAND, N.E.	74	20	81·4	75·4	78·4	+ 0·5	370	+ 50	378	− 89	74	+ 9	9·51	242	+ 67	3·0	−0·4	27	1010
3. ENGLAND EAST ...	76	24	82·2	75·8	78·9	+ 0·9	455	+ 53	353	−160	75	+11	10·29	259	+ 92	3·2	−0·3	29	1011
4. MIDLAND COUNTIES ...	76	21	82·0	75·3	78·6	+ 0·5	438	+ 11	403	−118	74	+12	11·28	288	+ 90	2·8	−0·3	25	1011
5. ENGLAND, S.E.	75	15	82·8	76·4	79·6	+ 0·8	544	+ 95	294	− 84	78	+18	11·54	293	+ 92	3·3	−0·2	31	1012
Western.																			
6. SCOTLAND, WEST ...	70	17	81·2	75·5	78·3	+ 0·1	329	− 8	359	− 57	84	+ 9	15·55	396	+ 9	3·0	−0·1	28	1009
7. ENGLAND N.W.	72	8	81·7	76·1	78·9	+ 0·5	389	+ 34	310	− 72	78	+ 9	12·58	320	+ 60	2·8	−0·3	26	1011
8. ENGLAND, S.W.	73	17	82·3	76·7	79·4	+ 0·2	485	+ 17	279	− 19	81	+12	14·54	373	+ 63	3·4	−0·1	31	1012
9. IRELAND NORTH ...	67	18	81·8	75·7	78·7	− 0·1	373	− 29	326	− 15	88	+ 8	13·74	351	+ 50	3·0	−0·1	28	1010
10. IRELAND, SOUTH ...	69	20	82·7	76·6	79·6	− 0·1	496	− 29	241	− 16	95	+22	14·49	366	+ 28	3·2	−0·3	30	1013
11. ENGLISH CHANNEL ...	71	30	83 2	78·7	80·9	+ 0·2	628	+ 35	85	− 24	84	+ 9	13·22	333	+ 74	3·8	−0·5	35	1013
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	m.m.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., May 11th, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 19. SUNDAY, MAY 7TH, TO SATURDAY, MAY 13TH, 1916. *Price 6d., Post free 7d.* *Annual Subscription Post Paid £1 10s. 0d.*

I.—THE NINETEENTH WEEK OF 1916.

The unsettled rainy weather that prevailed during the latter part of the preceding week was maintained throughout the present period, which was characterised by a large excess of rain and deficiency of sunshine over practically the whole country. A temporary change of type occurred on Wednesday when fine bright weather was reported in nearly all districts, but the next day dull weather again set in. As a corollary to the dullness of the week mean temperature was everywhere below the normal, 2°·0 A. (3°·6 F.) or over in Ireland and West Scotland and about 1° A (2° F.) in other districts with the exception of England East and North-East where the departures were slight. The day of highest maximum temperature was not the day of most sunshine, Wednesday 10th, but at most stations occurred on the 11th or 12th. 291° A. (65° F.) was touched at a few stations but at the majority 289° A (60° F.) was not reached. Temperature fell to the freezing point in the screen at a good many of the more exposed stations and to 267° A. (21° F.) on the grass at Crathes. Rainfall amounted to 19 mm. above the normal in the east of England and the excess was more than 10 mm. in nearly all other districts. Scotland North was noticeable in showing a slight deficiency. Notwithstanding the general excess of rain heavy falls in 24 hrs. were rare, only one case of as much as 25 mm. being reported (Shankill, Dublin, on the 7th). Moderate falls of between 10 and 15 mm. were however very numerous. Some snow fell at Balmoral, West Linton and Llangammarch Wells. Sunshine was markedly deficient in all districts, by over 4 hrs. per day in the east and south-east of England and in the English Channel. Thunderstorms were infrequent; one occurred at Skegness on Friday and thunder was heard at a few other stations on different days. Halo phenomena were unusually numerous. Sea temperatures were below the normal in the north and north-west, but in excess on other coasts.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		* ENGLAND, E.		NORTH WALES.		ENGLAND, S.W.		IRELAND, S.	
	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.
		m/s		m/s		m/s		m/s		m/s
South	3	4·3	6	2·6	3	4·6	3	4·4	4	3·7
North	4	3·2	1	3·0	4	3·5	3	6·3	3	5·1
West	3	3·9	4	2·7	6	3·0	6	6·1	3	3·6
East	4	4·1	3	2·1	1	2·9	1	2·0	3	1·8
Calm	0	—	0	—	0	—	0	—	0	—

* Yarmouth record for 10th May incomplete, but made up by use of the Gorleston record for the same time.

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH AVERAGE.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ... Warmth ...	Deficient	Deficient	Moderate	Moderate	Deficient	Deficient	Deficient	Deficient	Deficient	Very deficient	Very deficient	Deficient
Rainfall ...	Moderate	Heavy	Very heavy	Very heavy	Heavy	Heavy	Very heavy	Heavy	Heavy	Heavy	Moderate	Heavy
Sunshine ...	Scanty	Scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Scanty	Scanty	Very scanty

II.—THE SPRING SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SPRING. 11 weeks from Feb. 27th, 1916. Warmth ...	1, 4, 6	1, 2, 8	2, 5, 4	2, 7, 2	1, 6, 4	2, 5, 4	1, 5, 5	1, 5, 5	2, 4, 5	0, 5, 6	1, 5, 5	2, 3, 6
Rainfall ...	4, 4, 3	6, 4, 1	7, 1, 3	8, 2, 1	8, 1, 2	7, 3, 1	5, 2, 4	5, 2, 4	5, 3, 3	5, 3, 3	2, 6, 3	4, 6, 1
Sunshine ...	1, 6, 4	1, 4, 6	2, 3, 6	3, 1, 7	3, 1, 7	3, 1, 7	2, 5, 4	2, 5, 4	3, 4, 4	0, 7, 4	2, 5, 4	3, 1, 7

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.

Increment of 1° A. = increment of $\frac{9}{5}$° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(8131—19.) Wt. 79a—736. 450. 5/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.	*31*																						
a, Islands.. *p* *Baltasound*	54	51	11th	34	7th	48·0	39·0	43·2	− 0·9	5	1·07	27	—	5·2	− 0·4	32	•	•	•	•	•	•	*Baltasound.*
a Lerwick	54	51	12th	33	9th	50·1	39·0	44·2	− 1·7	6	0·42	11	− 4	4·7	− 1·2	29	•	•	•	•	•	•	Deerness.
a Stornoway	51	57	12th	33	9th	50·1	39·0	44·2	− 1·7	6	0·42	11	− 4	4·7	− 1·2	29	•	•	•	•	•	•	Stornoway.
a *Castlebay, Barra Isd.*	*37*	*49*	*13th*	*37*	*7, 9, 10*	*47·3*	*39·1*	*43·0*	*− 3·6*	*5*	*1·26*	*32*	—	*5·7*	—	*36*							*Castlebay.*
b, Mainland. *a* Wick	81	50	10th	32	10th	47·3	37·9	42·3	− 3·7	3	0·67	17	+ 6	•	•	•	•	•	•	•	•	•	
p Strathpeffer	200	61	12th	34	10th	54·0	38·3	45·7	− 1·1	3	0·25	6	− 5	4·0	− 1·4	25	•	•	•	•	•	•	Strathpeffer.
p Glencarron	500	57	11, 12	30	9, 10	50·3	36·6	43·0	− 2·7	4	0·40	10	− 17	•	•	•	•	•	•	•	•	•	
p Fort Augustus	68	61	11th	34	11th	53·7	39·6	46·2	− 0·5	5	0·52	13	0	2·6	− 1·6	16	•	•	•	•	•	•	Fort Augustus.
p Fort William	171	60	12th	34	9, 10	53·7	38·9	45·9	− 2·3	5	0·46	12	− 10	•	•	•	•	•	•	•	•	•	
1. SCOTLAND, E.														3·5	—	22	2	21	45·5	−1·9	44·8	+0·2	Crathes.
p Gordon Castle	101	63	12th	33	10th	53·7	38·6	45·7	− 1·6	3	0·91	23	+ 13	*5·7*	—	*36*	•	•	•	•	•	•	*Gordon Castle.*
a Nairn	82	61	11th	32	11th	52·7	37·9	44·9	− 2·4	5	0·92	23	+ 14	4·9	—	31	•	•	•	•	•	•	Nairn.
a Aberdeen	46	52	10, 11	34	7, 11	49·0	38·7	43·5	− 3·0	3	0·72	18	+ 6	4·6	− 1·3	29	•	•	•	•	44·4	+0·2	Aberdeen.
a Balmoral	930	56	12th	29	11th	47·9	34·6	40·9	− 3·4	3	0·56	14	+ 1	•	•	•	1	28	•	•	•	•	Balmoral.
p Crieff	432	56	10th	34	11th	51·1	37·4	43·8	− 4·5	5	0·48	12	− 1	1·6	•	10	•	•	•	•	•	•	Balruddery.
a Leith	18	58	12th	38	7th	51·6	41·4	46·2	− 2·0	5	0·83	21	+ 12	•	•	•	•	•	•	•	•	•	
a West Linton	769	55	12th	32	11th	49·1	36·3	42·3	− 2·0	5	1·40	36	—	*1·7*	—	*11*	1	26	•	•	•	•	*West Linton.*
p Marchmont	498	59	12th	33	11th	50·4	39·1	44·4	− 1·8	4	0·73	19	+ 5	2·1	− 3·4	13	1	27	•	•	•	•	Marchmont.
a *Edinburgh*	*441*	*55*	*12th*	*37*	*7, 8*	*49·4*	*40·0*	*44·4*	—	*6*	*1·13*	*29*	—	1·7	—	11	1	30	•	•	•	•	Edinburgh.
6. *a*, SCOTLAND, W.																							
a Poltalloch	132	54	11th	36	10th	51·0	42·9	46·7	− 2·0	5	0·86	22	+ 7	•	•	•	•	•	•	•	•	•	
p Glasgow Observatory	180	55	12, 13	35	10th	50·9	40·6	45·4	− 3·2	6	1·34	34	+ 20	2·2	− 2·8	14	1	27	•	•	•	•	Glasgow.
p Rothesay	170	56	13th	34	10th	50·3	40·0	44·8	− 3·9	6	0·78	19	+ 2	*2·3*	—	*15*	1	28	47·4	•	46·6	+0·5	*Rothesay.*
a Kilmarnock	90	56	11th	29	10th	52·0	38·6	44·9	− 3·6	6	0·94	24	—	*2·1*	—	*13*	•	•	46·4	•	46·0	•	*Kilmarnock.*
a Colmonell	170	54	10th	33	9th	51·1	38·9	44·6	− 4·1	6	0·90	23	+ 9	•	•	•	1	29	•	•	•	•	
a Dumfries	160	56	12th	34	10th	50·6	39·6	44·8	− 4·4	7	1·09	28	+ 14	*1·9*	—	*12*	2	26	46·7	•	47·0	•	*Dumfries.*
Eskdalemuir	*799*	*55*	*12th*	*33*	*8th*	*49·1*	*36·9*	*42·6*	—	*6*	*1·51*	*38*	—	*1·9*	—	*12*	•	•	•	•	•	•	*Eskdalemuir.*
p Cally, Gatehouse	120	56	13th	28	10th	52·4	36·9	44·2	− 4·4	7	1·40	36	+ 18	•	•	•	•	•	•	•	•	•	
b, I. OF MAN. *p* Douglas	277	51	13th	36	9, 10	48·4	40·6	44·3	− 4·1	5	1·86	47	+ 32	4·0	− 3·0	26	1	30	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	53	11th	32	11th	49·0	39·9	44·2	− 2·7	5	0·65	17	+ 5	1·5	—	10	1	27	45·5	−2·0	45·2	0·0	Cockle Park.
a Tynemouth	71	51	13th	40	12th	47·4	41·6	44·3	− 2·9	4	0·47	12	+ 3	•	•	•	1	28	•	•	•	•	Tynemouth
p Durham	336	60	12th	32	11th	52·7	39·9	45·9	− 1·3	5	0·69	18	+ 8	1·8	− 3·4	12	1	28	•	•	•	•	Durham.
a North.. *p* Rounton	249	62	12th	34	11th	55·9	40·4	47·7	+ 0·9	5	1·39	35	+ 26	•	•	•	1	29	47·7	•	•	•	Rounton.
a *West Witton*	*605*	*57*	*11th*	*34*	*11th*	*53·6*	*40·1*	*46·5*	—	*6*	*0·77*	*20*	—	•	•	•	1	28	46·2	•	43·7	•	*West Witton.*
p Scarborough†	100	56	7th	39	10th	52·7	41·9	47·0	− 0·8	7	1·93	49	+ 39	3·0	—	20	•	•	•	•	47·7	•	Scarborough.
p York	56	63	12th	38	9, 10	57·0	43·1	49·6	0·0	4	0·85	22	+ 11	3·5	− 2·1	21	•	•	48·6	−0·5	47·1	+0·7	York.
b, South.. *a* Spurn Head	26	55	7th	40	9, 10	53·1	43·1	47·8	− 0·7	5	1·50	38	+ 30	*2·7*	—	*18*	•	•	•	•	•	•	*Spurn Head.*
a Lincoln	58	63	12th	36	9, 10	56·9	42·9	49·5	− 0·5	5	1·23	31	+ 21	•	•	•	•	•	49·2	−0·3	48·4	+1·9	Lincoln.
a Fulbeck	180	62	12th	35	9, 10	55·3	42·3	48·4	− 1·1	5	1·24	32	+ 22	2·5	—	16	0	33	49·8	−2·3	47·2	−0·5	Rauceby.
														3·4	—	22	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																							
p Cromer	196	62	12th	38	9th	57·0	43·3	49·7	+ 1·5	6	1·11	28	—	2·6	—	17	•	•	•	•	•	•	Cromer.
p Little Massingham	280	65	12th	35	9th	56·3	42·3	48·9	− 0·6	6	1·32	34	+ 24	2·8	− 3·5	18	0	31	•	•	•	•	Lit. Massingham.
a, North.. *a* Yarmouth	13	58	11th	38	9th	53·6	44·4	48·7	+ 0·3	5	0·83	21	+ 11	3·1	—	21	•	•	51·9	−1·2	50·6	+0·3	Yarmouth.
a Norwich	93	63	12th	37	9th	56·9	43·5	49·8	+ 0·8	6	1·33	34	—	*2·5*	—	*17*	0	31	52·1	•	•	•	*Norwich.*
a Geldeston	37			37	9th	—	43·7	—	—	6	0·82	21	+ 11	2·1	− 4·5	14	•	•	•	•	•	•	Geldeston.
p Cambridge	41	65	11, 12	35	9th	57·1	42·3	49·3	− 1·2	6	1·02	26	+ 16	1·7	− 4·6	11	2	28	51·8	−0·2	49·7	+0·6	Cambridge.
a Clacton-on-Sea	54	57	10, 12	39	9th	54·3	45·4	49·6	+ 0·5	5	1·65	42	—	2·2	—	15	0	35	52·2	+1·1	50·5	+0·9	Clacton.
b, South.. *a* Rothamsted	424	61	12th	32	9th	53·6	41·3	47·1	− 2·4	6	1·12	28	+ 17	1·7	− 4·3	11	1	26	48·9	•	•	•	Rothamsted.
p Tottenham	51	57	10, 11	39	9th	54·6	44·4	49·2	− 1·5	4	0·97	25	—	1·6	—	11	0	33	•	•	50·8	+1·9	Tottenham.
4. MIDLAND COUNTIES.																							
a North.. *a* Harrogate	479	57	12th	36	11th	53·3	40·4	46·5	− 1·0	5	0·89	23	+ 11	2·8	—	18	1	28	46·6	−0·4	46·4	+0·7	Harrogate.
p *Buxton*	*987*	*55*	*12th*	*36*	*9, 10*	*50·3*	*39·6*	*44·6*	*− 1·4*	*6*	*0·74*	*19*	+ 2	*2·0*	—	*13*	1	28	45·7	−3·0	44·3	−0·5	*Buxton.*
a Bawtry	65	63	12th	35	9th	56·0	41·7	48·4	− 1·1	4	0·93	24	+ 14	2·2	—	15	1	30	47·3	−1·2	45·8	+0·7	Sheffield.
a Nottingham	82	61	12th	34	9th	54·4	42·7	48·2	− 1·3	5	1·19	30	+ 20	1·5	− 3·7	10	1	27	48·8	•	47·9	•	Worksop.
b, East.. *p* Birmingham, Edgbsn.	535	62	12th	36	9th	53·6	41·3	47·1	− 2·3	5	0·74	19	+ 8	1·3	—	8	2	27	48·5	−1·7	46·1	−0·5	Nottingham.
a Raunds	203	64	12th	33	9th	56·6	41·3	48·5	− 1·2	6	1·26	32	—	1·8	—	12	1	29	45·4	−2·4	45·3	−0·1	Birmingham.
p Oxford	208	61	12th	36	10th	56·3	42·9	49·2	− 1·3	6	0·83	21	+ 11	*1·5*	—	*10*	2	25	50·8	•	46·9	•	*Raunds.*
														2·3	− 3·7	15	1	30	•	•	•	•	Oxford.
c, West.. *a* Cheadle	646	56	11th	34	9th	52·1	40·3	45·9	− 2·3	4	0·81	21	+ 9	•	•	•	1	30	•	•	•	•	Cheadle.
p Shrewsbury	191	58	11, 13	32	9th	54·0	39·9	46·5	− 3·7	7	0·69	18	—	•	•	•	2	29	•	•	•	•	Shrewsbury.
a Hereford§	291	60	13th	31	10th	56·3	38·9	47·1	− 3·4	6	0·69	17	+ 6	*3·6*	•	*24*	2	29	49·3	•	48·4	•	*Malvern.*§
a Bath	66	62	11th	34	10th	57·3	42·3	49·4	− 1·4	5	0·61	15	+ 4	3·0	—	20	•	•	51·9	−0·8	49·9	+0·1	Bath.
5. ENGLAND, S.E.														2·6	—	17	0	31	54·0	+1·1	51·1	+1·6	Worthing.
a Marlborough	424	60	11th	31	10th	55·9	38·0	46·9	− 2·0	5	0·65	16	+ 5	3·5	− 2·2	23	2	24	50·7	•	48·7	•	Marlborough.
a Margate	53	61	12, 13	40	9th	56·1	45·1	50·3	+ 0·2	5	1·65	42	+ 34	2·2	− 3·9	15	0	34	53·9	+3·4	52·2	+4·2	Margate.
a Wisley, Surrey	150	61	12th	37	10th	55·7	43·6	49·0	− 2·1	4	0·91	23	—	1·8	—	12	3	27	51·3	−0·2	48·7	−0·1	Wisley.
p Salisbury (Wilton)	180	59	11-13	33	10th	56·7	41·3	48·5	− 2·6	5	0·61	15	+ 3	•	•	•	1	29	53·6	•	•	•	Salisbury.
a Tunbridge Wells	354	60	12th	36	10th	54·4	42·4	48·0	− 1·9	5	1·07	27	+ 17	1·7	− 4·7	11	3	27	52·3	+0·1	50·1	•	Tunbridge Wells.
a Dungeness	21	56	11, 12	39	10th	53·3	46·0	49·4	− 0·5	5	1·89	48	+ 41	•	•	•	•	•	•	•	•	•	Littlestone.
p Hastings	178	57	12th	36	10th	53·4	44·3	48·6	− 1·9	5	1·24	32	+ 23	3·1	− 4·0	21	0	33	54·3	•	50·7	•	Hastings.
p Southampton	64	61	11–13	36	10th	58·4	43·9	50·7	− 1·6	6	0·56	14	+ 3	3·2	− 3·5	21	1	29	•	•	•	•	Southampton.
a Ventnor	59	58	12, 13	39	10th	54·7	44·6	49·4	− 2·1	5	0·61	16	+ 7	3·1	− 4·0	21	•	•	•	•	•	•	Ventnor.
LONDON. *p* Kew	18	63	12th	37	9th	56·3	44·1	49·8	− 1·1	4	0·77	20	+ 11	1·9	− 4·2	13	2	26	51·6	+0·1	49·8	+1·3	Kew.
a *Westminster*	*27*	*63*	*12th*	*37*	*9th*	*56·3*	*43·9*	*49·7*	*− 1·7*	*5*	*0·91*	*23*	*+ 14*	*1·7*	*− 3·3*	*11*	0	36	•	•	•	•	*Westminster.*
a *Greenwich*	*155*	*65*	*12th*	*36*	*9th*	*57·6*	*43·4*	*50·1*	*− 1·3*	*5*	*0·93*	*24*	*+ 15*	*1·9*	*− 3·8*	*13*	2	28	•	•	•	•	*Greenwich.*
a *Hampstead*	*450*	*60*	*12th*	*36*	*9, 10*	*54·8*	*42·2*	*47·2*	—	*5*	*1·04*	*28*	—	*1·6*	—	*11*	2	28	•	•	•	•	*Hampstead.*
a *Camden Square*	*110*	*65*	*12th*	*37*	*9th*	*57·7*	*44·1*	*50·5*	—	*5*	*1·08*	*27*	—	*1·4*	—	*9*	0	33	•	•	•	•	*Camden Square.*
7. *a*, ENGLAND, N.W.														2·7	—	18	•	•	•	•	•	•	Hoylake.
a Aspatria (Mealsgate)	?480	58	13th	35	10, 11	49·7	38·4	43·7	− 4·1	6	1·23	31	+ 17	2·4	—	16	0	32	45·0	•	?44·8	•	Aspatria.
p Newton Rigg	559	56	11th	35	10, 11	51·1	40·1	45·3	− 1·9	4	0·80	20	+ 7	2·2	− 3·8	14	3	27	47·7	−1·0	45·8	+0·5	Newton Rigg.
p Stonyhurst	375	56	12th	36	9, 10	52·7	41·1	46·6	− 1·8	4	1·00	26	+ 10	2·4	− 3·6	16	2	28	•	•	•	•	Stonyhurst.
p Blackpool	66	60	11th	40	9, 10	53·3	42·6	47·6	− 1·5	6	0·74	19	+ 7	3·9	− 2·3	25	2	28	49·3	•	47·8	•	Blackpool.
a *Southport*	*37*	*57*	*11, 12*	*38*	*9th*	*52·3*	*42·0*	*46·8*	*− 2·3*	*6*	*0·99*	*25*	*+ 13*	*3·8*	*− 2·7*	*25*	2	28	49·1	−3·4	48·7	−0·9	*Southport.*
a Liverpool (Bidston)	188	59	11th	39	9th	52·9	42·9	47·6	− 1·9	5	0·87	22	+ 12	3·7	—	*24*	•	•	•	•	•	•	*Liverpool.*
a Hawarden Bridge	22	59	11th	39	9th	53·9	45·3	49·3	− 1·3	7	0·78	20	+ 11	*1·4*	—	*9*	0	33	47·4	−1·5	48·1	+1·2	*Manchester (City).*
p Manchester (Whit. Pk.)	125	59	12th	34	9th	53·4	42·6	47·7	− 2·8	6	1·05	27	+ 17	*1·5*	*− 3·2*	*10*	•	•	•	•	•	•	" (*Whit. Park*).
b NORTH WALES.																							
p Llandudno	71	58	12th	38	9th	52·9	43·0	47·7	− 2·1	7	0·72	18	+ 7	3·9	− 2·4	25	•	•	•	•	•	•	Llandudno.
Holyhead	15	53	11, 13	41	8-10	51·4	43·6	47·3	− 1·9	6	0·71	18	+ 7	*4·6*	—	*30*	•	•	•	•	•	•	*Holyhead.*
p Bettws-y-Coed	148	58	12, 13	35	10th	54·6	41·7	47·8	− 1·8	6	0·56	14	—	3·0	—	20	•	•	46·3	−2·7	46·0	−0·7	Bettws-y-Coed.
														3·5	—	23	•	•	•	•	•	•	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.		Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average.	
	Ft.	°F		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														3·6	—	24	*	*	*	*	*	*	Aberystwyth.
a Llangammarch Wells	550	56	12, 13	33	9, 10	52·8	40·0	46·0	− 2·2	7	1·21	31	—	2·4	—	16	2	26	47·1	−2·7	47·0	+0·3	Llangammarch.
a Pembroke	149	51	10, 11	40	10th	49·1	43·4	46·1	− 3·2	6	1·06	27	+ 16	3·4	− 3·2	23	*	*	*	*	*	*	Pembroke.
p Cardiff	202	59	11th	36	10th	53·9	42·0	47·6	− 3·6	7	1·62	41	+ 27	*4·4*	—	*29*	1	29	50·1	−1·6	48·3	+0·3	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	62	11th	37	10th	56·6	43·4	49·6	− 1·6	6	0·79	20	+ 7	*4·2*	—	*38*	0	34	*	*	*	*	*Clifton.*
a Shaftesbury	723	59	11th	36	10th	53·6	40·7	46·8	− 2·4	5	0·72	18	+ 6	*	*	*	*	*	49·9	*	48·9	*	Shaftesbury.
a Arlington	613	53	12, 13	37	8, 10	51·9	41·1	46·2	− 2·7	7	1·69	43	+ 27	*	*	*	*	*	*	*	*	*	Arlington.
a Newquay	*190*	*56*	*11th*	*40*	*8th*	*52·4*	*44·7*	*48·3*	− *2·3*	*6*	*0·54*	*14*	+ *5*	2·7	− 4·1	18	*	*	52·0	*	50·3	*	Newquay.
a Cullompton	202	61	11th	35	10th	56·9	42·6	49·3	− 1·3	5	0·70	18	+ 6	3·5	− 2·6	23	1	33	51·8	*	*	*	Cullompton.
a Portland Bill	19	54	11, 13	42	8th	52·0	45·6	48·6	− 1·8	5	0·26	7	—	*4·8*	—	*32*	*	*	*	*	*	*	*Weymouth.*
p Plymouth	116	58	9th	37	10th	54·1	44·1	48·8	− 2·7	6	0·78	20	+ 8	3·7	− 3·1	25	*	*	52·4	−1·1	50·2	*	Plymouth.
a Falmouth	167	58	11th	39	8th	54·3	43·7	48·7	− 2·0	6	0·68	17	+ 4	3·6	− 3·7	24	0	33	53·4	*	52·2	*	Falmouth.
9. IRELAND, N.																							
a Malin Head	208	56	12th	38	7, 8	49·4	40·4	44·6	− 3·5	6	1·04	26	+ 14	*5·4*	—	*35*	*	*	*	*	*	*	*Malin Head.*
a, West .. *a* Blacksod Point ..	?	53	13th	37	8th	49·1	39·7	44·1	− 5·5	7	1·39	35	+ 19	*	*	*	*	*	*	*	*	*	*
p Markree Castle ..	122	56	11th	32	10th	51·6	38·0	44·4	− 4·1	7	1·44	37	+ 22	3·5	− 2·3	23	1	29	49·0	*	47·7	*	Markree Castle.
a Birr Castle	175	60	11th	35	10th	53·1	39·3	45·8	− 3·6	6	0·91	23	+ 10	*3·3*	− *2·5*	*22*	*	*	*	*	*	*	*Birr Castle.*
b, East .. *p* Armagh	196	55	11-13	32	9th	52·3	38·3	44·9	− 3·6	7	0·85	22	+ 8	3·5	− 2·3	23	1	29	49·2	−2·0	48·0	−0·1	Armagh.
a Donaghadee	101	52	13th	36	10th	48·6	40·0	44·0	− 4·6	6	0·72	18	+ 5	*	*	*	*	*	*	*	*	*	*
														*	*	*	*	*	*	*	*	*	Trinity Coll.
														4·1	− 2·4	27	0	31	*	*	*	*	Phœnix Park.
10. IRELAND, S.														*	*	*	0	36	*	*	*	*	Dublin City.
p Dublin, City	47	59	11th	37	7, 8	53·3	40·7	46·6	− 4·5	5	0·88	22	+ 10	*	*	*	*	*	*	*	*	*	*
a, East .. *a* Kilkenny	212	59	13th	32	10th	53·7	40·3	46·6	− 2·9	7	0·56	14	+ 1	*	*	*	*	*	*	*	*	*	*
a Waterford	20	58	13th	33	7th	53·0	40·1	46·2	− 3·8	6	0·89	23	+ 10	*	*	*	*	*	*	*	*	*	*
a Seskin, Carrick-on-Suir	*541*	*58*	*11, 13*	*32*	*8th*	*52·3*	*37·4*	*44·4*	—	*6*	*0·80*	*20*	—	*3·8*	—	*25*	2	25	*	*	*	*	*Seskin.*
a Birr Castle	175	60	11th	35	10th	53·1	39·3	45·8	− 3·6	6	0·91	23	+ 10	3·3	− 2·5	22	*	*	*	*	*	*	Birr Castle.
a Foynes	50	60	11th	38	7, 8	54·0	42·0	47·6	− 2·9	5	0·49	13	0	*	*	*	*	*	*	*	*	*	*
b, West .. *a* Cahir	199	59	11th	32	10th	54·3	38·9	46·1	− 3·6	6	0·65	17	—	*	*	*	*	*	*	*	*	*	*
a Killarney	174	60	11th	36	10th	55·5	41·5	48·1	− 1·8	6	1·08	27	+ 9	*	*	*	*	*	*	*	*	*	*
a Valencia	30	54	11th	40	7th	51·4	42·1	46·5	− 4·2	6	0·68	17	− 2	4·8	− 1·8	32	*	*	*	*	*	*	Valencia.
a Roche's Point	32	57	13th	38	8, 10	52·0	42·3	46·9	− 3·7	6	0·71	18	+ 4	3·9	—	26	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	57	11th	40	8th	53·1	44·4	48·5	− 2·7	6	0·91	23	+ 13	3·4	− 3·8	23	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	60	12th	43	8th	55·0	46·4	50·9	− 1·2	7	0·93	24	+ 12	4·6	− 3·0	31	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	59	12th	42	8th	55·7	45·9	50·5	− 1·1	7	0·70	18	+ 7	4·2	− 3·8	28	0	37	53·4	+0·1	51·9	+1·5	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, May 13th, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Height. Above Ground.	Height. Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Gales, force 8 or more. Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	High Winds, forces 6 and 7. Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.	Date and Hour.	Highest Gust with Date and Time.
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	m/s.		m/s. d. h. m.
1. SCOTLAND, E.														
Dyce	305	75	‡15**	—	—	—	—	—	131	7	0	— 5	12th 15h.	12 9th 15 . 50
Aberdeen*	153	105	37 † / 52 †	—	—	—	—	12	136	20	0	NW. by W. 8	7th 2h.	12 8th 8 . 8
Edinburgh	485	39	31	—	—	—	—	21	128	19	0	SSE. 7	11th 19h.	13 7th 10 . 33
6. SCOTLAND, W.														
Eskdalemuir	850	50	22	—	—	—	—	37	73	58	0	NE. by N. 10	7th 8h.	16 7th 7 . 42
Paisley	188	81	52	—	—	—	—	—	125	43	0	NE. 5	7th 11h.	11 7th 11 . 47
2. ENGLAND, N.E.														
Alnwick Castle	340	70	17	—	—	—	—	7	94	67	0	N. 6	9th 12h.	12 9th 12 . 0
South Shields	72	61	12	—	—	—	—	6	70	82	10	NE. by N. 6	7th 1h.	9 7th 3 . 0
Spurn Head	66	40	‡	—	—	9, 10	6	38	74	13	37	— 12	10th 1h.	16 10th 1 . 0
3. ENGLAND, E.														
Gorleston	52	42	‡	—	—	7, 9	4	77	76	11	0	— 13	9th 16h.	17 9th 15 . 35
Shoeburyness	103	90	‡	—	—	9th	3	71	84	10	0	S. by W. 13	9th 13h.	17 8th 15 . 33
4. MIDLAND COUNTIES.														
Benson	270	84	‡	—	—	—	—	56	99	13	0	WSW. 10	8th 15h.	16 8th 14 . 55
5. ENGLAND, S.E.														
Dover	271	40	‡	—	—	7 to 9	11	77	43	37	0	— 13	8th 4h.	19 8th 3 . 42
Warlingham	642	33	‡	—	—	—	—	14	111	43	0	— 6	9th 12h.	15 7th 4 . 43
Brighton	261	53	6	—	—	9th	1	61	56	12	38	— 11	9th 11h.	17 9th 11 . 7
Kew Observatory ..	82	65	6 † / 22 †	—	—	—	—	29	107	32	0	S. by W. 7	7th 8h.	15 8th 16 . 37
South Kensington ..	123	92	30	—	—	—	—	—	104	64	0	S. by W. 5	7th 8h.	11 8th 14 . 28
7. ENGLAND, N.W.														
Carnforth	246	56	23	—	—	—	—	10	56	102	0	SW. by W. 7	8th 16h.	11 8th 16 . 24
Southport	80	62	48	—	—	8th	11	60	90	7	0	NW. 12	8th 9h.	16 8th 10 . 44
Holyhead*	60	40	‡	—	—	7, 8	17	103	47	1	0	NW. by N. 16	8th 2h.	21 7th 24 . 2
8. ENGLAND, S.W.														
Pendennis Castle§ ..	256	65	24	—	—	7 to 10	14	115	37	2	0	N. 12	9th 15h.	21 8th 0 . 51
Plymouth	185	88	2	—	—	—	—	80	81	7	0	— 11	9th 4h.	15 9th 17 . 47
10. IRELAND, S.														
Quilty	100	40	‡	—	—	—	—	—	—	—	—	— —	— —	— — —
Weaver Pt.	160	30	‡	—	—	7th	17	82	62	7	0	— 16	7th 12h.	24 7th 11 . 36
11. ENGLISH CHANNEL.														
Scilly*	150	32 / 19	‡	7th	2	7 to 9, 12	21	75	63	2	0	NW. 18	7th 19h.	26 7th 21 . 23

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

** Above tops of trees.

‡ Standard mounting.

§ Direction from the Robinson Anemometer at Falmouth Observatory.

† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

NINETEENTH WEEK—May 7th to May 13th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
			Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	61	30	83·6	76·6	79·9	− 1·2	32	− 10	10	+ 3	4	0	0·54	14	− 3	4·1	−1·2	26	1009
Eastern.																			
1. SCOTLAND, EAST ...	63	29	83·4	76·3	79·7	− 1·6	31	− 16	11	+ 3	4	+ 1	0·82	21	+ 9	3·1	−2·8	20	1009
2. ENGLAND, N.E.	63	32	84·8	78·4	81·4	− 0·3	38	− 7	1	− 3	5	+ 2	1·11	28	+ 17	2·6	−3·7	17	1009
3. ENGLAND, EAST ...	65	32	86·0	79·3	82·4	− 0·3	49	− 9	0	− 4	6	+ 3	1·13	29	+ 19	2·2	−4·3	15	1010
4. MIDLAND COUNTIES ...	64	31	85·8	78·1	81·7	− 1·0	43	− 17	2	− 3	5	+ 2	0·86	22	+ 12	2·1	−3·9	14	1009
5. ENGLAND, S.E.	63	31	86·1	79·3	82·5	− 0·9	50	− 14	0	− 2	5	+ 2	1·00	25	+ 16	2·6	−4·1	17	1011
Western.																			
6. SCOTLAND, WEST ...	56	28	83·4	77·3	80·2	− 2·0	30	− 23	6	+ 3	6	+ 2	1·14	29	+ 12	3·1	−3·0	20	1009
7. ENGLAND, N.W.	60	34	84·4	78·6	81·4	− 1·1	36	− 17	0	− 2	6	+ 3	0·85	22	+ 10	3·0	−3·3	20	1009
8. ENGLAND, S.W.	62	33	84·9	78·9	81·8	− 1·3	41	− 19	0	− 1	6	+ 4	0·95	24	+ 12	3·3	−3·5	22	1010
9. IRELAND, NORTH ...	60	32	83·4	77·1	80·0	− 2·4	30	− 23	8	+ 6	7	+ 3	1·06	27	+ 13	3·5	−1·4	23	1009
10. IRELAND, SOUTH ...	60	32	84·9	77·9	81·2	− 2·1	38	− 23	3	+ 2	6	+ 3	0·76	19	+ 6	4·0	−2·3	27	1011
11. ENGLISH CHANNEL ...	60	40	85·7	80·6	83·0	− 1·0	56	− 12	0	0	7	+ 4	0·85	22	+ 13	4·1	−4·2	27	1012

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 11 Weeks, February 27th to May 13th, 1916.

0. SCOTLAND, NORTH ...	70	20	80·6	74·9	77·6	− 0·8	157	− 79	276	+ 27	54	+ 3	8·20	207	− 23	3·4	−0·6	26	1008
Eastern.																			
1. SCOTLAND, EAST ...	68	18	80·7	74·3	77·3	− 1·2	184	−108	339	+ 68	50	+ 8	8·49	216	+ 82	3·4	−0·9	26	1008
2. ENGLAND, N.E.	74	20	81·9	75·6	78·6	− 0·5	248	− 47	227	+ 24	51	+12	7·60	192	+ 84	3·5	−1·2	27	1008
3. ENGLAND, EAST ...	76	24	83·1	76·1	79·5	− 0·1	335	− 48	201	− 14	48	+10	6·90	174	+ 73	3·9	−1·0	30	1008
4. MIDLAND COUNTIES ...	76	21	82·8	75·3	78·9	− 0·7	309	− 88	246	+ 20	47	+11	7·74	198	+ 86	3·4	−1·0	26	1008
5. ENGLAND, S.E.	75	18	83·8	76·6	80·1	− 0·2	394	− 16	175	+ 25	47	+12	7·40	187	+ 78	4·2	−0·7	32	1008
Western.																			
6. SCOTLAND, WEST ...	70	17	81·7	75·4	78·4	− 0·9	231	− 79	228	+ 41	45	+ 2	7·83	200	0	3·8	−0·7	29	1009
7. ENGLAND, N.W.	72	8	82·0	75·9	78·9	− 0·8	258	− 67	203	+ 41	45	+ 6	6·99	179	+ 37	3·7	−0·8	28	1008
8. ENGLAND, S.W.	73	17	82·9	76·3	79·5	− 0·9	332	− 62	193	+ 69	46	+ 8	7·48	191	+ 29	4·5	−0·4	35	1008
9. IRELAND, NORTH ...	67	18	81·9	75·6	78·6	− 1·2	231	−114	212	+ 61	51	+ 4	8·36	214	+ 50	3·7	−0·6	28	1009
10. IRELAND, SOUTH ...	69	20	82·9	76·3	79·5	− 1·2	313	−108	165	+ 53	53	+11	8·06	203	+ 25	4·2	−0·6	32	1010
11. ENGLISH CHANNEL ...	71	30	83·7	78·5	81·0	− 0·6	412	− 53	64	+ 25	48	+ 7	7·11	179	+ 46	5·1	−0·8	40	1008

THE YEAR.—Aggregates, &c., for the Period of 19 Weeks, January 2nd to May 13th, 1916.

0. SCOTLAND, NORTH ...	70	20	80·4	75·0	77·6	+ 0·1	259	− 31	454	− 89	101	+ 9	23·68	600	+115	2·6	−0·2	24	1007
Eastern.																			
1. SCOTLAND, EAST ...	68	7	80·5	74·3	77·3	− 0·1	280	− 73	583	− 24	86	+13	14·77	377	+130	2·9	−0·4	27	1008
2. ENGLAND, N.E.	74	20	81·6	75·6	78·5	+ 0·4	408	+ 43	379	− 92	79	+11	10·62	270	+ 84	3·0	−0·5	27	1010
3. ENGLAND EAST ...	76	24	82·4	75·9	79·1	+ 0·8	504	+ 44	353	−164	81	+14	11·42	288	+111	3·1	−0·6	28	1011
4. MIDLAND COUNTIES ...	76	21	82·2	75·4	78·8	+ 0·5	481	− 6	405	−121	79	+14	12·14	310	+102	2·7	−0·6	25	1011
5. ENGLAND, S.E.	75	15	83·0	76·6	79·7	+ 0·7	594	+ 81	294	− 86	83	+20	12·54	318	+108	3·3	−0·4	29	1012
Western.																			
6. SCOTLAND, WEST ...	70	17	81·3	75·6	78·4	0·0	359	− 31	365	− 54	90	+11	16·69	425	+ 21	3·0	−0·3	27	1009
7. ENGLAND N.W.	72	8	81·8	76·3	79·0	+ 0·4	425	+ 17	310	− 74	84	+12	13·43	342	+ 70	2·8	−0·4	26	1011
8. ENGLAND, S.W.	73	17	82·4	76·8	79·5	+ 0·1	526	− 2	279	− 20	87	+16	15·49	397	+ 75	3·4	−0·3	30	1012
9. IRELAND NORTH ...	67	18	81·8	75·8	78·8	− 0·2	403	− 52	334	− 9	95	+11	14·80	378	+ 63	3·0	−0·2	27	1010
10. IRELAND, SOUTH ...	69	20	82·8	76·7	79·7	− 0·2	534	− 52	244	− 14	101	+25	15·25	385	+ 34	3·3	−0·3	29	1012
11. ENGLISH CHANNEL ...	71	30	83 3	78·8	81·0	+ 0·1	684	+ 23	85	− 24	91	+13	14·07	355	+ 87	3·8	−0·7	34	1013
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	m.m.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., May 18th, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 77

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 20. SUNDAY, MAY 14TH, TO SATURDAY, MAY 20TH, 1916. *Price 6d., Post free 7d* *Annual Subscription Post Paid £1 10s. 0d.*

I.—THE TWENTIETH WEEK OF 1916.

The unsettled conditions which had prevailed through previous weeks came to an end over the British Isles generally in the opening days of the period now under review, the improvement becoming very marked, so that in most regions the last four days were favoured with cloudless skies, large records of bright sunshine, and high temperatures. In many localities the entire week was rainless, or there were only one or two insignificant showers, and there were very few considerable falls. For the whole week temperature was in excess of the normal in all districts, by as much as 3° to 3½° A. (5½° to 6° F.) in England North-West, Midland Counties and North-East. At the commencement temperature at a few northern stations failed to exceed 283° A. (50° F.), and at Balmoral a minimum of 271° A. (28° F.) was registered, but later high day and night readings were very numerous, and many instances occurred of about 300° A. (80° F.) on the afternoons of the 18th to the 20th, with minima from 286½° to 287½° A. (56° to 58° F.). There was a slight excess of rainfall in Scotland West, and Scotland North had the normal quantity, but over the country generally there was a large deficiency, England South-East only 20 per cent. of the average, and the English Channel 10 per cent. At Poltalloch 26 mm. was registered on the 17th. Bright sunshine was above the normal in Ireland and nearly the whole of England, most other districts returning a slight deficiency. On the 19th and 20th thunderstorms of little intensity visited some scattered localities in England. A Sun Pillar was observed on the evening of the 20th at Oxford and Seskin, Carrick-on-Suir. At the latter station it was of rainbow colours. The temperature of the sea water was as much as 2¼° A. (4° F.) under the normal off Wick, and 1¼° A. (2¼° F.) above off Burnmouth.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		ENGLAND, E.		NORTH WALES.		ENGLAND, S.W.		IRELAND, S.	
	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.
		m/s		m/s		m/s		m/s		m/s
South	4	4·2	4	2·4	5	3·7	4	2·9	6	3·7
North	3	2·5	3	2·0	2	1·5	2	2·2	¼	1·0
West	3	3·7	4	3·2	7	3·3	4	5·4	2	3·8
East	4	3·4	3	1·8	0	—	3	4·4	5	2·2
Calm	0	—	0	—	0	—	1	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH AVERAGE.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with average for the time of year ... Warmth ...	Moderate	Unusual	Very unusual	Very unusual	Very unusual	Unusual	Unusual	Very unusual	Unusual	Very unusual	Very unusual	Unusual
Comparison with average for the time of year ... Rainfall ...	Moderate	Moderate	Light	Light	Light	Light	Moderate	Light	Light	Light	Light	Light
Comparison with average for the time of year ... Sunshine ...	Scanty	Moderate	Moderate	Abundant	Abundant	Abundant	Moderate	Abundant	Moderate	Moderate	Abundant	Moderate

II.—THE SPRING SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SPRING. 12 weeks from Feb. 27th, 1916.	Warmth ...	1, 5, 6	2, 2, 8	3, 5, 4	3, 7, 2	2, 6, 4	3, 5, 4	2, 5, 5	2, 5, 5	3, 4, 5	1, 5, 6	2, 5, 5	3, 3, 6
	Rainfall ...	4, 5, 3	6, 5, 1	7, 1, 4	8, 2, 2	8, 1, 3	7, 3, 2	5, 3, 4	5, 2, 5	5, 3, 4	5, 3, 4	2, 6, 4	4, 6, 2
	Sunshine ...	1, 6, 5	1, 5, 6	2, 4, 6	4, 1, 7	4, 1, 7	4, 1, 7	2, 6, 4	3, 5, 4	3, 5, 4	0, 8, 4	3, 5, 4	3, 2, 7

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1° A. = increment of ⅘° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour

(8191—19.) Wt. 79a—736. 450. 5/16. D & S. G. 17/ 36.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.†	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%		°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.																								
a, Islands .. *p Baltasound*	*31*																							*Baltasound.*
a Lerwick	54	52	20th	37	17th	48·7	39·7	43·9	− 1·0	4	0·20	5	—	3·7	− 2·0	22	•	•	•	•	•	•	Deerness.
a Stornoway	51	66	19th	36	17th	56·0	41·6	48·4	+ 1·4	5	0·93	24	+ 10	4·1	− 2·1	25	•	•	•	•	•	•	Stornoway.
a Castlebay, Barra Isd. ..	*37*	*65*	*19th*	*43*	*14th*	*54·4*	*45·6*	*49·7*	*+ 1·8*	*5*	*1·10*	*28*	—	*4·8*	—	*29*							*Castlebay.*
b, Main-land. *a* Wick	81	59	20th	35	16th	49·4	40·6	44·7	− 2·2	5	0·53	13	+ 2	•	•	•	•	•	•	•	•	•	•
p Strathpeffer	200	71	18th	36	14th	61·1	42·9	51·5	+ 3·7	5	0·37	9	− 2	4·7	− 0·8	29	•	•	•	•	•	•	Strathpeffer.
p Glencarron	500	75	19th	41	14th	58·9	45·6	51·9	+ 5·1	4	1·13	29	+ 3	•	•	•	•	•	•	•	•	•	•
p Fort Augustus.. ..	68	71	18th	38	17th	58·9	44·3	51·2	+ 3·4	3	0·50	13	0	4·6	+ 0·2	28	•	•	•	•	•	•	Fort Augustus.
p Fort William	171	76	19th	42	14th	62·3	46·9	54·1	+ 4·8	4	0·82	21	0	•	•	•	•	•	•	•	•	•	•
1. SCOTLAND, E.																								
p Gordon Castle	101	77	20th	39	14th	61·7	43·9	52·3	+ 3·8	5	0·37	9	− 2	5·7	—	35	2	29	49·4	− 0·3	45·5	− 0·5	Crathes.
a Nairn	82	68	20th	39	14th	58·6	43·3	50·5	+ 2·0	5	0·41	10	+ 1	*6·3*	—	*39*	•	•	•	•	•	•	*Gordon Castle.*
a Aberdeen	46	70	20th	40	14th	57·6	43·9	50·3	+ 2·6	4	0·37	9	− 3	4·7	—	29	•	•	•	•	•	•	Nairn.
a Balmoral	930	73	20th	28	14th	60·3	39·0	49·0	+ 3·5	3	0·28	7	− 6	5·3	− 0·8	33	•	•	•	•	45·0	− 0·4	Aberdeen.
p Crieff	432	76	18th	35	14th	61·6	40·9	50·6	+ 0·9	4	0·61	15	+ 1	•	•	•	1	27	•	•	•	•	Balmoral.
														4·8	—	30	•	•	•	•	•	•	Balruddery.
a Leith	18	71	18th	45	14, 15, 18	59·9	45·9	52·5	+ 3·1	2	0·39	10	0	•	•	•	•	•	•	•	•	•	•
a West Linton	769	72	18, 20	36	17th	61·3	41·1	50·6	+ 5·1	3	0·71	18	—	*6·0*	—	*38*	0	31	•	•	•	•	*West Linton.*
p Marchmont	498	74	20th	38	14th	62·7	43·4	52·5	+ 5·0	2	0·39	10	− 4	7·9	+ 2·2	49	0	32	•	•	•	•	Marchmont.
a Edinburgh	*441*	*72*	*18th*	*40*	*14th*	*58·9*	*44·1*	*51·1*	—	*2*	*0·27*	*7*	—	5·6	—	35	0	37	•	•	•	•	Edinburgh.
6. *a* SCOTLAND, W.																								
a Poltalloch	132	73	19th	47	14, 17	59·9	51·4	55·4	+ 5·5	4	1·88	48	+ 33	•	•	•	•	•	•	•	•	•	•
p Glasgow Observatory	180	72	18th	43	14, 17	60·1	46·0	52·6	+ 2·9	4	0·73	19	+ 5	5·9	+ 0·6	37	0	32	•	•	•	•	Glasgow.
p Rothesay	170	67	19th	42	14th	57·6	45·4	51·1	+ 1·4	4	1·08	27	+ 10	*5·7*	—	*36*	0	34	51·4	•	47·4	+ 0·1	*Rothesay.*
a Kilmarnock	90	77	20th	39	14th	61·0	44·1	53·5	+ 3·7	3	0·85	22	—	*6·1*	—	*38*	•	•	51·0	•	46·5	•	*Kilmarnock.*
a Colmonell	170	75	19th	38	14th	62·0	45·0	53·0	+ 3·0	4	0·56	14	− 1	•	•	•	0	34	•	•	•	•	•
a Dumfries	160	77	19th	38	14th	63·3	45·9	54·1	+ 3·6	3	0·17	4	− 10	7·2	—	*45*	1	27	50·9	•	47·6	•	*Dumfries.*
Eskdalemuir	*799*	*74*	*19th*	*35*	*14th*	*62·0*	*42·1*	*51·5*	—	*3*	*0·79*	*20*	—	*7·4*	—	*46*	•	•	•	•	•	•	*Eskdalemuir.*
a Cally, Gatehouse ..	120	75	19th	37	17th	61·1	44·3	52·2	+ 2·3	4	0·56	14	− 4	•	•	•	•	•	•	•	•	•	•
b. I. OF MAN. *p* Douglas	277	71	19th	44	14th	61·0	47·9	54·1	+ 4·5	2	0·14	4	− 10	7·9	+ 0·7	50	0	41	•	•	•	•	Douglas.
2. ENGLAND, N.E.																								
a Alnwick Castle ..	210	79	20th	39	14th	64·7	43·9	53·7	+ 5·8	2	0·20	5	− 7	6·5	—	41	0	32	49·8	− 0·4	46·2	− 0·6	Cockle Park.
a Tynemouth	71	77	20th	43	14th	61·1	45·4	52·8	+ 4·6	2	0·16	4	− 6	•	•	•	•	•	•	•	•	•	Tynemouth.
a Durham	336	77	20th	39	14th	65·6	45·1	54·7	+ 6·1	2	0·11	3	− 8	6·8	+ 1·3	43	0	32	•	•	•	•	Durham.
a, North .. *p* Rounton	249	79	20th	38	14th	66·9	45·0	55·3	+ 7·5	2	0·11	3	− 7	•	•	•	0	32	52·3	•	•	•	Rounton.
a West Witton	*605*	*80*	*18th*	*41*	*14, 16*	*67·1*	*47·3*	*56·6*	—	*0*	*0·00*	*0*	—	•	•	•	0	33	51·3	•	44·3	•	*West Witton.*
p Scarborough†	100	77	20th	42	14th	62·4	46·3	53·9	+ 4·9	2	0·14	4	− 6	7·3	—	46	•	•	•	•	48·6	•	Scarborough.
p York	56	80	20th	42	14th	67·9	48·3	57·5	+ 6·7	1	0·15	4	− 7	5·5	− 0·2	35	•	•	51·2	0·0	48·0	+ 0·4	York.
a Spurn Head	26	74	20th	45	14, 16	62·4	47·9	54·7	+ 5·0	2	0·12	3	− 6	*6·4*	—	*41*	•	•	•	•	•	•	*Spurn Head.*
b, South .. *a* Lincoln	58	80	20th	40	14th	68·9	46·7	57·1	+ 5·9	2	0·04	1	− 9	•	•	•	•	•	53·9	+ 1·7	48·9	+ 1·0	Lincoln.
a Fulbeck	180	79	20th	37	14th	67·7	45·3	55·8	+ 5·3	1	0·09	2	− 9	8·8	—	56	0	35	54·3	− 0·8	48·0	− 0·9	Rauceby.
														9·6	—	61	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																								
p Cromer	196	77	20th	43	16th	64·9	46·6	55·2	+ 5·5	1	0·20	5	—	9·2	—	59	•	•	•	•	•	•	Cromer.
p Little Massingham ..	280	77	20th	41	16th	66·4	45·4	55·3	+ 4·4	2	0·20	5	− 6	9·5	+ 2·9	61	0	38	•	•	•	•	Lit. Massingham.
a, North .. *a* Yarmouth	13	64	18th	43	16th	60·1	46·7	53·0	+ 3·4	1	0·16	4	− 6	9·1	—	58	•	•	54·3	− 1·6	51·0	− 0·7	Yarmouth.
a Norwich	93	78	20th	43	16th	67·7	46·9	56·7	+ 6·5	1	0·14	4	—	*9·0*	—	*58*	0	39	55·0	•	•	•	*Norwich.*
a Geldeston	37	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	Geldeston.
p Cambridge	41	79	20th	39	18th	68·1	43·7	55·2	+ 3·3	2	0·11	3	− 7	8·6	+ 2·1	56	0	33	54·5	+ 0·5	50·8	+ 0·2	Cambridge.
a Clacton-on-Sea ..	54	64	15th	44	16th	61·0	48·3	54·3	+ 4·2	0	0·00	0	—	9·1	—	59	0	40	54·6	+ 1·0	51·4	+ 0·3	Clacton.
b, South .. *a* Rothamsted ..	424	75	20th	39	18th	66·3	44·3	54·6	+ 3·9	2	0·12	3	− 8	8·5	+ 2·2	55	0	33	51·8	•	•	•	Rothamsted.
p Tottenham	51	78	20th	43	14th	68·9	48·1	57·9	+ 6·1	1	0·07	2	—	8·7	—	57	0	40	•	•	51·1	+ 0·7	Tottenham.
4. MIDLAND COUNTIES.																								
a North .. *a* Harrogate	479	78	20th	40	14th	66·9	46·3	56·0	+ 7·3	1	0·08	2	− 10	7·2	—	45	0	35	50·0	+ 1·0	47·4	+ 0·3	Harrogate.
p Buxton	*987*	*75*	*20th*	*34*	*17th*	*62·7*	*44·1*	*52·8*	*+ 5·6*	*3*	*0·60*	*15*	− 3	*7·1*	—	*45*	1	30	49·7	− 1·4	44·8	− 0·9	*Buxton.*
a Bawtry	65	79	19th	39	17th	69·0	45·7	56·7	+ 6·0	1	0·06	2	− 9	7·8	—	50	0	36	52·1	+ 1·4	46·4	+ 0·2	Sheffield.
a Nottingham	82	77	18, 20	39	17th	66·9	45·4	55·5	+ 4·7	3	0·10	3	− 7	7·7	+ 2·3	49	0	33	52·3	•	48·7	•	Worksop.
b, East .. *p* Birmingham, Edgbsn.	535	77	19, 20	43	14th	66·9	48·9	57·4	+ 6·9	2	0·11	3	− 9	7·9	—	51	0	32	54·4	+ 1·6	47·6	− 0·6	Nottingham.
a Raunds	203	80	20th	37	14, 15	69·4	42·0	54·9	+ 4·0	3	0·09	2	− 8	7·5	—	48	0	32	49·7	+ 0·4	45·9	− 0·4	Birmingham.
p Oxford	208	77	18-20	42	14th	68·3	47·3	57·2	+ 5·5	3	0·08	2	− 8	*8·8*	—	*57*	2	29	52·9	•	48·0	•	*Raunds.*
														8·4	+ 2·1	55	0	35	•	•	•	•	Oxford.
a Cheadle	646	76	20th	41	16th	65·4	47·4	55·9	+ 6·5	3	0·22	6	− 6	•	•	•	0	37	•	•	•	•	Cheadle.
c, West .. *p* Shrewsbury ..	191	80	20th	39	17th	69·1	46·3	57·0	+ 5·7	3	0·06	2	—	•	•	•	0	35	•	•	•	•	Shrewsbury.
a Hereford§	291	77	19th	39	17th	68·7	45·6	56·5	+ 5·0	3	0·29	7	− 5	*8·9*	•	*58*	0	35	54·2	•	49·5	•	*Malvern.*§
a Bath	66	78	18th	43	18th	68·3	47·9	57·5	+ 5·5	3	0·17	4	− 7	7·0	—	45	•	•	55·2	+ 0·3	50·7	− 0·7	Bath.
5. ENGLAND, S.E.																								
a Marlborough	424	76	18th	38	18th	67·4	44·9	55·5	+ 5·5	2	0·09	2	− 9	9·9	—	65	0	38	56·7	+ 1·3	51·7	+ 0·8	Worthing.
a Margate	53	72	20th	46	14, 16	64·3	48·7	56·0	+ 4·6	0	0·00	0	− 9	8·0	+ 2·0	52	0	33	54·6	•	49·5	•	Marlborough.
a Wisley, Surrey ..	150	76	19, 20	41	14, 16	68·9	45·0	56·2	+ 4·0	1	0·08	2	—	9·0	+ 2·6	59	0	39	56·3	+ 3·3	53·0	+ 3·4	Margate.
p Salisbury (Wilton) ..	180	79	18th	42	16th	67·7	44·7	55·5	+ 3·0	1	0·05	1	− 10	8·6	—	56	2	29	54·0	− 0·1	49·6	− 0·8	Wisley.
a Tunbridge Wells ..	354	74	18th	39	16th	67·6	46·0	56·2	+ 5·0	1	0·13	3	− 7	•	•	•	0	38	56·3	•	•	•	Salisbury.
														9·4	+ 2·8	61	1	29	54·8	− 0·4	50·8	•	Tunbridge Wells.
a Dungeness	21	66	20th	42	16th	59·1	47·1	52·7	+ 1·4	1	0·12	3	− 4	•	•	•	•	•	•	•	•	•	Littlestone.
p Hastings..	178	71	19th	42	14th	63·3	48·9	55·7	+ 4·0	1	0·16	4	− 5	•	•	•	0	39	56·9	•	51·7	•	Hastings.
p Southampton	64	73	18, 19	41	16th	66·4	49·1	57·2	+ 3·6	1	0·03	1	− 10	8·4	+ 1·4	55	0	33	•	•	•	•	Southampton.
a Ventnor	59	69	20th	47	14, 18	63·0	50·1	56·2	+ 3·5	1	0·10	3	− 6	8·8	+ 1·5	58	•	•	•	•	•	•	Ventnor.
LONDON. *p* Kew	18	76	20th	43	14th	68·4	47·8	57·5	+ 5·2	1	0·08	2	− 7	8·5	+ 2·1	55	0	33	53·6	− 0·4	50·4	+ 0·8	Kew.
a Westminster	*27*	*78*	*20th*	*42*	*14, 16*	*69·1*	*48·2*	*58·0*	*+ 5·2*	*1*	*0·06*	*2*	− 7	*8·4*	*+ 3·1*	*55*	0	39	•	•	•	•	*Westminster.*
a Greenwich	*155*	*78*	*20th*	*41*	*16th*	*70·1*	*46·3*	*57·5*	*+ 4·6*	*1*	*0·08*	*2*	− 8	*9·0*	*+ 3·0*	*58*	0	32	•	•	•	•	*Greenwich.*
a Hampstead	*460*	*75*	*20th*	*39*	*14th*	*68·9*	*46·3*	*56·0*	—	*1*	*0·11*	*3*	—	*8·7*	—	*56*	1	29	•	•	•	•	*Hampstead.*
a Camden Square ..	*110*	*81*	*18, 20*	*41*	*14th*	*73·4*	*48·4*	*59·7*	—	*1*	*0·09*	*2*	—	7·6	—	*49*	0	39	•	•	•	•	*Camden Square.*
7. *a*, ENGLAND, N.W.																								
a Aspatria (Mealsgate)	487	74	19th	42	14th	61·9	47·7	54·4	+ 5·2	3	0·34	9	− 5	7·9	—	50	•	•	•	•	•	•	Hoylake.
p Newton Rigg	559	76	19th	41	14, 17	64·4	46·4	54·9	+ 6·4	3	0·20	5	− 9	7·1	—	45	0	40	50·9	•	46·0	•	Aspatria.
p Stonyhurst	375	75	19, 20	42	17th	64·3	47·0	55·1	+ 5·2	1	0·67	17	+ 1	6·9	+ 0·6	43	0	33	51·6	+ 0·4	46·5	− 0·2	Newton Rigg.
p Blackpool	66	76	19th	41	17th	64·0	47·9	55·5	+ 5·1	1	0·22	6	− 6	7·1	+ 0·9	45	0	33	•	•	•	•	Stonyhurst.
a Southport	*37*	*78*	*19th*	*42*	*17th*	*65·4*	*48·3*	*56·3*	*+ 5·9*	*2*	*0·39*	*8*	− 4	7·1	+ 1·0	52	0	31	53·8	•	48·4	•	Blackpool.
a Liverpool (Bidston) ..	188	78	19th	45	14, 17	66·3	49·4	57·3	+ 6·6	*8·5*	*+ 1·7*	*54*	0	34	55·9	+ 0·9	50·4	− 0·9	*Southport.*				
a Hawarden Bridge ..	22	79	19th	43	15th	68·1	50·1	58·6	+ 6·8	3	0·21	5	− 6	*8·2*	—	*52*	•	•	•	•	•	•	*Liverpool.*
p Manchester (Whit. Pk.)	125	79	19th	43	16th	67·0	51·1	58·6	+ 6·6	2	0·06	2	− 8	*6·2*	—	*40*	0	40	52·3	+ 0·7	48·7	+ 0·5	*Manchester (City).*
										2	0·35	9	− 2	*5·5*	*+ 0·6*	*35*	•	•	•	•	•	•	" (Whit. Park)
b NORTH WALES.																								
p Llandudno	71	73	19th	47	14, 16, 17	62·9	49·3	55·7	+ 4·9	1	0·18	5	− 6	9·1	+ 2·5	58	•	•	•	•	•	•	Llandudno.
a Holyhead	15	76	19th	46	14, 17, 18	60·0	48·1	53·7	+ 3·6	2	0·24	6	− 5	*7·5*	—	*48*	•	•	•	•	•	•	*Holyhead.*
p Bettws-y-Coed ..	148	79	19th	40	14th	65·9	46·3	55·5	+ 4·5	2	0·23	6	—	7·7	—	49	•	•	51·3	+ 0·5	47·3	− 0·4	Bettws-y-Coed.
														7·1	—	46	•	•	•	•	•	•	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.							Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.										Grass Min.		Earth 1 ft		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	Daily Mean	Deviation from Normal.	Percentage of possible duration.	Ground Frosts.	Lowest Reading.	Mean.	Deviation from average.	Mean.	Deviation from average	
	Ft.	°F		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														6·7	—	43	•	•	•	•	•	•	Aberystwyth.
a Llangammarch Wells	550	76	20th	40	18th	65·0	44·6	54·2	+ 4·7	3	0·26	7	—	7·7	—	50	0	34	52·5	+0·8	47·6	-0·1	Llangammarch.
a Pembroke	149	71	20th	44	18th	59·1	48·9	53·7	+ 3·6	4	0·28	7	— 4	5·7	- 1·4	37	•	•	•	•	•	•	Pembroke.
p Cardiff	202	75	18-20	43	18th	65·0	48·1	56·0	+ 3·8	3	0·28	7	- 7	*7·6*	—	*49*	0	40	54·6	+0·6	48·9	-0·5	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	79	18, 20	47	14, 18	68·7	51·0	59·3	+ 6·8	2	0·61	15	+ 2	*8·0*	—	*52*	0	44	•	•	•	•	*Clifton.*
a Shaftesbury	722	74	18th	43	16th	64·7	48·9	56·3	+ 5·9	2	0·20	5	- 7	•	•	•	•	•	53·9	•	49·6	•	Shaftesbury.
a Arlington	613	74	18th	44	14th	63·9	49·1	56·1	+ 8·2	3	0·35	9	- 7	•	•	•	•	•	•	•	•	•	Arlington.
a Newquay	*190*	*65*	*18, 19*	*47*	*14, 17*	*58·0*	*50·9*	*54·2*	+ *2·6*	*1*	*0·06*	*2*	- *6*	6·6	- 0·5	43	•	•	54·3	•	50·6	•	Newquay.
a Cullompton	202	77	18th	42	18th	68·0	46·1	56·4	+ 4·6	2	0·11	3	- 9	7·7	+ 1·3	50	0	38	54·7	•	•	•	Cullompton.
a Portland Bill	19	60	18-20	48	14, 17, 18	56·7	49·4	52·8	+ 1·3	1	0·04	1	—	*8·2*	—	*54*	•	•	•	•	•	•	*Weymouth.*
p Plymouth	116	72	19th	43	18th	61·9	49·3	55·2	+ 2·5	1	0·04	1	- 10	6·5	- 0·6	42	•	•	54·2	-1·2	50·8	•	Plymouth.
a Falmouth	167	66	20th	46	18th	59·4	48·6	53·7	+ 2·0	1	0·04	1	- 11	6·8	- 0·8	44	0	49	55·9	•	52·3	•	Falmouth.
9. IRELAND, N.																							
a, West .. { *a* Malin Head	208	72	19th	41	14th	57·7	47·0	52·0	+ 2·8	5	0·48	12	0	*6·3*	—	*39*	•	•	•	•	•	•	*Malin Head.*
a Blacksod Point ..	?	75	19th	44	14th	58·3	47·6	52·6	+ 2·0	4	0·37	9	- 6	•	•	•	•	•	•	•	•	•	•
p Markree Castle ..	122	76	19th	44	14th	65·0	47·1	55·5	+ 5·9	4	0·16	4	- 11	7·3	+ 1·2	46	0	40	54·2	•	45·3	•	Markree Castle.
a Birr Castle	175	76	19th	43	14th	65·9	49·1	57·0	+ 6·4	4	0·24	6	- 7	7·7	+ 1·7	*49*	•	•	•	•	•	•	*Birr Castle.*
b, East .. { *p* Armagh	196	73	19th	44	14th	65·3	48·1	56·2	+ 6·6	2	0·18	5	- 9	7·2	+ 1·2	45	0	43	53·2	0·0	48·5	-0·9	Armagh.
a Donaghadee	101	69	20th	44	14th	61·1	46·7	53·5	+ 3·9	1	0·12	3	- 10	•	•	•	•	•	•	•	•	•	•
10. IRELAND, S.																							
a, East .. { *p* Dublin, City	47	72	19th	46	14th	65·3	51·0	57·7	+ 5·7	2	0·09	2	- 10	•	•	•	•	•	•	•	•	•	Trinity Coll.
a Kilkenny	212	71	19, 20	45	14th	66·4	49·0	57·2	+ 6·5	3	0·06	2	- 11	8·0	+ 1·2	51	0	39	•	•	•	•	Phœnix Park.
a Waterford	20	69	19th	46	14th	65·6	49·4	57·0	+ 5·6	2	0·09	2	- 11	•	•	•	0	43	•	•	•	•	Dublin City.
a Seskin, Carrick-on-Suir	*541*	*71*	*20th*	*44*	*14, 18*	*65·3*	*47·1*	*55·7*	—	*2*	*0·06*	*2*	—	•	•	•	•	•	•	•	•	•	•
														8·3	—	*53*	0	42	•	•	•	•	*Seskin.*
b, West .. { *a* Birr Castle	175	76	19th	43	14th	65·9	49·1	57·0	+ 6·4	4	0·24	6	- 7	7·7	+ 1·7	49	•	•	•	•	•	•	Birr Castle.
a Foynes	50	73	19th	46	14th	64·4	49·7	56·6	+ 4·8	5	0·27	7	- 6	•	•	•	•	•	•	•	•	•	•
a Cahir	198	69	19, 20	42	18th	65·6	48·4	56·5	+ 5·5	2	0·09	2	—	•	•	•	•	•	•	•	•	•	•
a Killarney	174	77	19th	48	14th	68·6	51·6	59·6	+ 8·6	3	0·17	4	- 13	•	•	•	•	•	•	•	•	•	•
a Valencia	30	75	19th	47	14th	62·1	50·9	56·2	+ 4·7	5	0·37	9	- 9	7·4	+ 0·6	48	•	•	•	•	•	•	Valencia.
a Roche's Point	32	62	16th	45	18th	59·4	48·9	53·8	+ 2·3	6	0·19	5	- 9	7·5	—	49	•	•	•	•	•	•	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	60	18, 19	46	14, 18, 19	57·1	47·9	52·2	+ 0·2	3	0·07	2	- 7	4·9	- 2·7	32	•	•	•	•	•	•	Scilly.
a Jersey, St. Aubins ..	25	79	20th	46	16th	67·3	51·0	58·7	+ 5·3	1	0·08	2	- 9	9·4	+ 1·4	62	•	•	•	•	•	•	St. Heliers.
a Guernsey (Villa Carey)	180	78	20th	47	16th	65·0	51·0	57·6	+ 5·0	1	0·01	0·3	- 11	9·2	+ 0·9	61	0	41	56·7	+1·4	52·8	+1·0	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, May 20th, 1916.

DISTRICT AND STATION.	Height.			Distribution of Wind.								Extreme Velocities.			
	Above Mean Sea Level.	Above Ground.	Above Building.	Gales, force 8 or more.		High Winds, forces 6 and 7.		Fresh or Moderate Winds, forces 4 and 5.	Light Winds, forces 2 and 3.	Calms and Light Airs, forces 0 and 1.	No Record.	Highest Hourly Wind.			Highest Gust with Date and Time.
				Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Velocity.		Date and Hour.	
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.		m/s. d. h. m.
1. SCOTLAND, E.															
Dyce	305	75	‡15**	—	—	—	—	—	103	65	0	—	5	19th 14h.	12 18th 13 . 25
Aberdeen*	153	105	37 / 52 †	—	—	—	—	13	105	50	0	NW.	8	15th 8h.	13 15th 7 . 33
Edinburgh	485	39	31	—	—	—	—	69	79	20	0	W.	10	15th 19h.	15 15th 18 . 15
6. SCOTLAND, W.															
Eskdalemuir	850	50	22	—	—	14, 15	2	55	66	45	0	S. by W.	11	14th 12h.	17 15th 16 . 15
Paisley	188	81	52	—	—	—	—	31	101	36	0	NW. by W.	9	15th 15h.	17 15th 14 . 25
2. ENGLAND, N.E.															
Alnwick Castle	340	70	17	—	—	—	—	5	119	44	0	SW. by W.	6	16th 11h.	12 14th 18 . 29
South Shields	72	61	12	—	—	—	—	13	83	72	0	WNW.	8	15th 14h.	13 14th 19 . 47
Spurn Head	66	40	‡	—	—	—	—	25	97	22	24	—	10	15th 17h.	15 15th 17 . 0
3. ENGLAND, E.															
Gorleston	52	42	‡	—	—	—	—	32	122	10	4	—	9	20th 15h.	13 15th 13 . 56
Shoeburyness	103	90	‡	—	—	—	—	34	115	19	0	WNW.	10	15th 11h.	17 15th 10 . 20
4. MIDLAND COUNTIES.															
Benson	270	84	‡	—	—	—	—	38	86	44	0	WNW.	8	15th 13h.	15 15th 13 . 10
5. ENGLAND, S.E.															
Dover	271	40	‡	—	—	—	—	45	56	67	0	—	9	15th 6h.	14 14th 2 . 40
Warlingham	642	33	‡	—	—	—	—	—	77	91	0	—	5	15th 10h.	9 15th 6 . 18
Brighton	261	53	6	—	—	—	—	24	80	29	35	—	9	15th 7h.	14 15th 7 . 21
Kew Observatory ..	82	65	6 / 22 †	—	—	—	—	9	99	60	0	WNW.	7	15th 12h.	14 15th 12 . 31
South Kensington ..	123	92	30	—	—	—	—	—	97	71	0	SW. by W.	4	14th 19h.	9 14th 19 . 0
7. ENGLAND, N.W.															
Carnforth	246	56	23	—	—	—	—	13	70	85	0	W. by S.	9	15th 15h.	15 15th 15 . 2
Southport	80	62	48	—	—	14, 15	16	44	92	16	0	W.	14	15th 4h.	18 15th 4 . 7
Holyhead*	60	40	‡	—	—	14, 15, 17	11	78	64	15	0	W.	13	15th 4h.	18 15th 3 . 53
8. ENGLAND, S.W.															
Pendennis Castle§ ..	256	65	24	—	—	14, 15, 19	14	53	69	32	0	WNW.	12	15th 5h.	21 15th 6 . 28
Plymouth	185	88	2	—	—	—	—	38	88	42	0	—	8	19th 19h.	13 19th 16 . 6
Lyme Regis	556	61	‡	—	—	15th	1	42	51	73	1	—	11	15th 6h.	16 15th 5 . 33
10. IRELAND, S.															
Quilty	100	40	‡	—	—	14, 19	6	84	50	28	0	—	13	14th 1h.	16 14th 0 . 40
Weaver Pt.	160	30	‡	—	—	—	—	42	100	26	0	—	9	15th 7h.	15 14th 22 . 49
11. ENGLISH CHANNEL.															
Scilly*	150	32 / 19	‡	—	—	15th	8	60	61	33	6	WNW.	13	15th 7h.	19 15th 6 . 15

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.
† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

TWENTIETH WEEK—May 14th to May 20th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Accumulated Number of Day-Degrees. Deviation from Normal.	Accumulated Number of Day-Degrees. Below 42°	Accumulated Number of Day-Degrees. Deviation from Normal.	Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	76	35	86·6	79·2	82·7	+ 1·0	52	+ 6	0	− 6	4	0	0·64	16	0	4·3	−1·4	26	1016
Eastern.																			
1. SCOTLAND, EAST ...	77	28	88·8	78·9	83·6	+ 1·7	63	+ 11	0	− 6	4	0	0·44	11	− 2	5·7	−0·4	35	1017
2. ENGLAND, N.E.	80	37	91·5	80·8	85·8	+ 3·4	92	+ 40	0	− 3	2	− 1	0·12	3	− 7	7·4	+1·0	47	1019
3. ENGLAND, EAST ...	79	39	91·6	80·9	85·9	+ 2·4	93	+ 27	0	− 3	1	− 2	0·13	3	− 8	9·0	+2·3	58	1021
4. MIDLAND COUNTIES ...	80	37	92·9	80·9	86·6	+ 3·2	102	+ 35	0	− 4	3	0	0·13	3	− 9	7·6	+1·6	49	1021
5. ENGLAND, S.E.	79	38	91·7	81·4	86·3	+ 2·0	97	+ 23	0	− 1	1	− 2	0·08	2	− 8	8·8	+2·0	57	1022
Western.																			
6. SCOTLAND, WEST ...	77	37	89·2	80·9	84·8	+ 1·9	79	+ 20	0	− 3	4	+ 1	0·74	19	+ 2	6·9	+0·4	43	1018
7. ENGLAND, N.W.	79	40	91·1	82·1	86·3	+ 3·0	97	+ 35	0	− 1	2	− 1	0·27	7	− 6	7·6	+1·0	49	1020
8. ENGLAND, S.W.	79	40	90·3	82·1	86·0	+ 2·1	94	+ 25	0	− 1	2	− 1	0·22	6	− 6	6·8	0·0	44	1022
9. IRELAND, NORTH ...	76	41	89·8	81·7	85·5	+ 2·4	88	+ 28	0	− 1	3	0	0·26	7	− 7	7·3	+1·0	46	1018
10. IRELAND, SOUTH ...	77	42	91·2	82·9	86·8	+ 2·9	104	+ 35	0	− 1	4	0	0·17	4	− 10	7·7	+0·9	49	1020
11. ENGLISH CHANNEL ...	79	46	90·3	83·0	86·4	+ 1·7	99	+ 22	0	0	2	− 1	0·05	1	− 9	7·8	−0·3	52	1023

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 12 Weeks, February 27th to May 20th, 1916.

0. SCOTLAND, NORTH ...	76	20	81·1	75·3	78·1	− 0·6	209	− 73	276	+ 21	58	+ 3	8·84	223	− 23	3·5	−0·6	26	1009
Eastern.																			
1. SCOTLAND, EAST ...	77	18	81·4	74·6	77·9	− 0·9	247	− 97	339	+ 62	54	+ 8	8·93	227	+ 80	3·6	−0·9	27	1009
2. ENGLAND, N.E.	80	20	82·7	76·0	79·2	− 0·2	340	− 7	227	+ 21	53	+11	7·72	195	+ 77	3·9	−0·9	29	1009
3. ENGLAND, EAST ...	79	24	83·8	76·5	80·0	+ 0·1	428	− 21	201	− 17	49	+ 8	7·03	177	+ 65	4·3	−0·7	33	1009
4. MIDLAND COUNTIES ...	80	21	83·7	75·7	79·5	− 0·5	411	− 53	246	+ 16	50	+11	7·87	201	+ 77	3·7	−0·8	28	1009
5. ENGLAND, S.E.	79	18	84·5	77·0	80·6	0·0	491	+ 7	175	+ 24	48	+10	7·48	189	+ 70	4·6	−0·4	35	1009
Western.																			
6. SCOTLAND, WEST ...	77	17	82·3	75·9	79·0	− 0·6	310	− 59	228	+ 38	49	+ 3	8·61	220	+ 3	4·1	−0·5	31	1010
7. ENGLAND, N.W.	79	8	82·8	76·5	79·5	− 0·5	355	− 32	203	+ 40	47	+ 5	7·26	186	+ 31	4·0	−0·6	30	1009
8. ENGLAND, S.W.	79	17	83·5	76·8	80·0	− 0·7	426	− 37	193	+ 68	48	+ 7	7·70	197	+ 23	4·7	−0·4	36	1009
9. IRELAND, NORTH ...	76	18	82·5	76·1	79·2	− 0·9	319	− 86	212	+ 60	54	+ 4	8·62	221	+ 43	4·0	−0·4	30	1010
10. IRELAND, SOUTH ...	77	20	83·6	76·9	80·1	− 0·9	417	− 73	165	+ 52	57	+11	8·23	207	+ 15	4·5	−0·4	34	1011
11. ENGLISH CHANNEL ...	79	30	84·3	78·9	81·4	− 0·5	511	− 31	64	+ 25	50	+ 6	7·16	180	+ 37	5·3	−0·8	41	1009

THE YEAR.—Aggregates, &c., for the Period of 20 Weeks, January 2nd to May 20th, 1916.

0. SCOTLAND, NORTH ...	76	20	80·7	75·2	77·9	+ 0·2	311	− 25	454	− 95	105	+ 9	24·32	616	+115	2·7	−0·2	24	1007
Eastern.																			
1. SCOTLAND, EAST ...	77	7	80·9	74·5	77·6	0·0	343	− 62	583	− 30	90	+13	15·21	388	+128	3·1	−0·3	27	1008
2. ENGLAND, N.E.	80	20	82·1	75·9	78·9	+ 0·6	500	+ 83	379	− 95	81	+10	10·74	273	+ 77	3·2	−0·5	28	1010
3. ENGLAND EAST ...	79	24	82·9	76·2	79·4	+ 0·9	597	+ 71	353	−167	82	+12	11·55	291	+103	3·4	−0·4	30	1011
4. MIDLAND COUNTIES ...	80	21	82·8	75·7	79·2	+ 0·6	583	+ 29	405	−125	82	+14	12·27	313	+ 93	3·0	−0·4	26	1011
5. ENGLAND, S.E.	79	15	83·4	76·8	80·0	+ 0·7	691	+104	294	− 87	84	+18	12·62	320	+100	3·6	−0·2	31	1012
Western.																			
6. SCOTLAND, WEST ...	77	17	81·7	75·8	78·7	+ 0·1	438	− 11	365	− 57	94	+12	17·47	445	+ 24	3·2	−0·2	28	1010
7. ENGLAND N.W.	79	8	82·3	76·5	79·4	+ 0·5	522	+ 52	310	− 75	86	+11	13·70	349	+ 64	3·1	−0·3	27	1011
8. ENGLAND, S.W.	79	17	82·8	77·0	79·9	+ 0·2	620	+ 23	279	− 21	89	+15	15·71	403	+ 69	3·5	−0·4	31	1012
9. IRELAND NORTH ...	76	18	82·2	76·1	79·1	− 0·1	491	− 24	334	− 10	98	+11	15·06	385	+ 56	3·2	−0·2	29	1010
10. IRELAND, SOUTH ...	77	20	83·2	77·0	80·0	− 0·1	638	− 17	244	− 15	105	+25	15·42	389	+ 24	3·5	−0·3	31	1013
11. ENGLISH CHANNEL ...	79	30	83 7	79·0	81·3	+ 0·2	783	+ 45	85	− 24	93	+12	14·12	356	+ 78	4·0	−0·7	35	1013
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	m.m.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., May 25th, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 21. SUNDAY, MAY 21ST, TO SATURDAY, MAY 27TH, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE TWENTY-FIRST WEEK OF 1916.

Over the eastern half of England the general character of the weather was fair and dry, while in the northern and western parts of the Kingdom the sky was often overcast and rain of common occurrence. Temperature was highest early in the week and lowest towards its close. On the 21st it rose to about 299° A. (79° F.) over a considerable portion of England, touching 301°·5 A. (83° F.) in England East and the Midland Counties, at Norwich and Raunds. In Scotland only one station, Kilmarnock, had a reading as high as 295° A. (72° F.), and in Ireland there was no reading higher than 291° A. (64° F.). On the 27th the thermometer fell to 272°·5 A. (31° F.) in Scotland East, at West Linton and Balmoral, and on the 26th it touched 273°·5 A. (33° F.) in England South-East, at Marlborough. For the week generally the temperature was above the normal in Great Britain, the largest excess being about 2°·4 A. (4°·3 F.) in England East and North-East. Rain fell on very few days in most parts of England, and in England East and South-East the total fall was very slight. At a few stations the week was rainless. Over the Kingdom as a whole the fall was moderate, but heavy in England North-West and South-West and Ireland South, and very heavy in Ireland North. On the 24th more than 30 mm. fell in several parts of Wales and the adjacent English districts, the highest values being 38 mm. at Llangammarch Wells and Clifton, and 36 mm. at Cardiff. Thunderstorms were experienced at several stations over the northern half of England on the 27th, while they occurred over a more restricted area on some of the intermediate dates, especially on the 25th in the south-west of England. Bright sunshine was abundant in England South-East only. In the other English districts it was moderate, in Ireland South and Scotland scanty, and in Ireland North very scanty. In both Ireland North and Scotland North the daily mean duration was only 3·5 hr. In England South-East it was as much as 8·8 hr. A Sun Pillar was observed at Oxford on the 22nd, 23rd and 24th, and a Mock Sun at Kew on the 23rd. The temperature of the sea water was considerably below the normal at Wick and Sheephaven, and slightly below at Port Erin. At the other stations it was somewhat above it.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		ENGLAND, E.		NORTH WALES.		ENGLAND, S.W.		IRELAND, S.	
	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.
		m/s		m/s		m/s		m/s		m/s
South	5	3·5	4	2·6	6	3·6	2	3·0	5	3·4
North	1	1·4	3	1·7	1	1·8	4	3·2	2	0·4
West	2	3·7	3	1·8	6	2·6	5	3·1	5	2·7
East	5	4·5	4	3·4	¼	0·8	2	2·3	2	1·3
Calm	0	—	0	—	0	—	0	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH AVERAGE.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ... Warmth ...	Unusual	Unusual	Very unusual	Very unusual	Unusual	Unusual	Moderate	Unusual	Moderate	Moderate	Deficient	Unusual
Rainfall ...	Moderate	Moderate	Light	Moderate	Moderate	Light	Moderate	Heavy	Heavy	Very heavy	Heavy	Moderate
Sunshine ...	Scanty	Scanty	Moderate	Moderate	Moderate	Abundant	Scanty	Moderate	Moderate	Very scanty	Scanty	Moderate

II.—THE SPRING SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SPRING. 13 weeks from Feb. 27th, 1916. Warmth ...	2, 5, 6	3, 2, 8	4, 5, 4	4, 7, 2	3, 6, 4	4, 5, 4	2, 6, 5	3, 5, 5	3, 5, 5	1, 6, 6	2, 5, 6	4, 3, 6
Rainfall ...	4, 6, 3	6, 6, 1	7, 1, 5	8, 3, 2	8, 2, 3	7, 3, 3	5, 4, 4	6, 2, 5	6, 3, 4	6, 3, 4	3, 6, 4	4, 7, 2
Sunshine ...	1, 6, 6	1, 5, 7	2, 5, 6	4, 2, 7	4, 2, 7	5, 1, 7	2, 6, 5	3, 6, 4	3, 6, 4	0, 8, 5	3, 5, 5	3, 3, 7

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1° A. = increment of $\frac{9}{5}$° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour

(8268—19.) Wt. 79a—736. 450. 6/16. D & S. G. 17/ 36.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average.	
0. SCOTLAND, N.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
p Baltasound	*31*													•	•	•	•	•	•	•	•	•	*Baltasound.*
a, Islands .. a Lerwick	54	54	21, 24, 27	44	22nd	52·3	45·9	48·9	+ 3·0	3	1·18	30	—	4·6	- 1·1	27	•	•	•	•	•	•	Deerness.
a Stornoway	51	58	25th	41	27th	55·9	46·6	51·0	+ 3·0	5	0·60	15	+ 1	3·1	- 3·2	18	•	•	•	•	•	•	Stornoway.
a Castlebay, Barra Isd. ..	*37*	*56*	*21, 25*	*46*	*22, 25–27*	*53·7*	*46·6*	*49·9*	*+ 1·1*	*5*	*0·65*	*17*	—	*3·9*	—	*23*	•	•	•	•	•	•	*Castlebay.*
a Wick	81	55	27th	42	27th	52·6	45·1	48·6	+ 0·6	3	0·20	5	- 6	•	•	•	•	•	•	•	•	•	
b, Mainland. p Strathpeffer	200	65	21, 27	37	27th	61·4	45·4	52·9	+ 3·8	1	0·06	2	- 9	3·8	- 1·8	23	•	•	•	•	•	•	Strathpeffer.
p Glencarron	500	66	21st	39	27th	58·7	45·3	51·6	+ 3·4	5	0·99	25	0	•	•	•	•	•	•	•	•	•	
p Fort Augustus	68	65	22nd	35	27th	61·0	45·3	53·7	+ 3·5	5	0·20	5	- 7	2·5	- 1·9	15	•	•	•	•	•	•	Fort Augustus.
p Fort William	171	66	21, 27	38	27th	59·4	45·9	52·3	+ 1·8	7	0·64	16	- 5	•	•	•	•	•	•	•	•	•	
1. SCOTLAND, E.																							
p Gordon Castle	101	65	26th	41	27th	62·1	47·3	54·3	+ 4·6	4	0·20	5	- 7	4·1	—	25	1	27	52·6	+1·1	47·5	+0·1	Crathes.
a Nairn	82	63	27th	37	27th	60·4	45·1	52·3	+ 2·3	4	0·41	10	0	*5·0*	—	*30*	•	•	•	•	•	•	*Gordon Castle.*
a Aberdeen	48	63	27th	39	27th	58·7	45·3	51·6	+ 2·5	4	0·40	10	- 2	4·1	—	25	•	•	•	•	•	•	Nairn.
a Balmoral	930	67	21st	31	27th	59·6	41·6	50·1	+ 2·9	3	0·24	6	- 7	5·2	- 0·9	31	•	•	•	•	46·4	- 0·3	Aberdeen.
p Crieff	432	66	21st	36	27th	59·1	42·9	50·5	- 0·7	6	0·79	20	+ 5	•	•	•	1	28	•	•	•	•	Balmoral.
														4·7	—	28	•	•	•	•	•	•	Balruddery.
a Leith	18	62	21, 26, 27	41	27th	59·7	46·1	52·5	+ 1·7	5	0·44	11	+ 1	•	•	•	•	•	•	•	•	•	
a West Linton	769	66	21st	31	27th	58·6	42·1	49·8	+ 2·9	5	0·56	14	—	*3·9*	—	*24*	1	30	•	•	•	•	*West Linton.*
p Marchmont	498	69	21st	41	27th	62·4	44·6	53·0	+ 4·2	5	0·38	10	- 4	6·7	+ 0·8	41	0	33	•	•	•	•	Marchmont.
a Edinburgh	*441*	*61*	*21st*	*43*	*27th*	*58·6*	*46·0*	*51·9*	—	*4*	*0·37*	*9*	—	5·8	—	35	1	30	•	•	•	•	Edinburgh.
6. a, SCOTLAND, W.																							
a Poltalloch	132	63	25th	48	26th	58·7	51·3	54·8	+ 3·6	6	1·13	29	+ 13	•	•	•	•	•	•	•	•	•	
p Glasgow Observatory	180	65	21st	43	27th	59·0	46·9	52·6	+ 1·6	6	0·39	10	- 5	4·0	- 1·4	24	0	34	•	•	•	•	Glasgow.
p Rothesay	170	60	21, 27	43	26th	55·3	45·6	50·2	- 0·9	5	0·76	19	+ 2	*3·5*	—	*21*	0	40	53·4	•	49·4	-0·8	*Rothesay.*
a Kilmarnock	90	72	21st	42	27th	62·7	46·4	54·1	+ 2·9	5	0·36	9	—	*4·8*	—	*29*	•	•	53·9	•	48·4	•	*Kilmarnock.*
a Colmonell	170	65	21st	44	23, 26, 27	59·1	46·3	52·3	+ 0·9	5	0·72	18	+ 4	•	•	•	0	39	•	•	•	•	
a Dumfries	160	70	21st	38	27th	61·4	46·4	53·5	+ 1·5	2	0·28	7	- 7	*6·5*	—	*40*	1	28	55·5	•	50·7	•	*Dumfries.*
Eskdalemuir	*799*	*69*	*21st*	*30*	*27th*	*60·1*	*41·1*	*50·0*	*6·0*	*4*	*0·55*	*14*	—	*5·9*	—	*36*	•	•	•	•	•	•	*Eskdalemuir.*
p Cally, Gatehouse	120	65	21st	36	27th	60·1	45·3	52·3	+ 1·1	4	0·98	25	+ 7	•	•	•	•	•	•	•	•	•	
b. I. OF MAN. p Douglas	277	62	21st	41	26th	57·1	46·0	51·2	+ 0·4	5	1·53	39	+ 25	6·4	- 0·9	40	0	37	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	68	21st	37	27th	61·4	44·4	52·4	+ 3·1	3	0·34	9	- 3	6·0	—	37	1	30	53·6	+1·2	49·0	+0·6	Cockle Park.
a Tynemouth	71	63	22, 23	42	27th	57·6	46·0	51·5	+ 2·0	3	0·16	4	- 6	•	•	•	•	•	•	•	•	•	Tynemouth.
p Durham	336	64	21, 22	36	27th	61·6	43·4	52·0	+ 1·9	3	0·09	2	- 9	5·9	+ 0·3	36	1	27	•	•	•	•	Durham.
a, North .. p Rounton	249	70	21st	36	27th	64·4	44·0	53·6	+ 4·3	4	0·20	5	- 3	•	•	•	0	31	56·1	•	•	•	Rounton.
a West Witton	*605*	*70*	*21st*	*35*	*27th*	*63·6*	*44·1*	*53·3*	—	*2*	*0·24*	*6*	—	•	•	•	0	31	55·7	•	46·7	•	*West Witton.*
p Scarborough†	100	76	21st	44	27th	65·3	49·7	57·0	+ 6·5	1	0·38	10	- 1	5·6	—	35	•	•	•	•	49·6	•	Scarborough.
p York	56	71	21st	41	27th	65·4	48·3	56·3	+ 4·0	1	0·04	1	- 10	5·2	- 0·6	32	•	•	55·4	+2·7	49·8	+1·0	York.
a Spurn Head	26	68	21st	48	26, 27	60·6	50·7	55·4	+ 4 5	0	0·00	0·1	- 9	*4·9*	—	*30*	•	•	•	•	•	•	*Spurn Head*
b, South .. a Lincoln	58	81	21st	44	27th	68·3	49·2	58·2	+ 5·4	1	0·01	0	- 11	•	•	•	•	•	59·7	+5·5	51·3	+1·9	Lincoln.
a Fulbeck	180	81	21st	39	27th	67·3	47·6	56·9	+ 5·0	3	0·20	5	- 6	7·4	—	46	0	35	59·9	+2·0	50·1	-0·3	Rauceby.
														7·4	—	46	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																							
p Cromer	196	81	21st	42	22nd	64·0	48·0	55·5	+ 4·4	1	0·13	3	—	7·2	—	45	•	•	•	•	•	•	Cromer.
p Little Massingham	280	81	21st	42	25th	68·3	47·3	57·2	+ 5·0	1	0·16	4	- 7	6·8	+ 0·1	43	0	38	•	•	•	•	Lit. Massingham.
a, North .. a Yarmouth	13	74	21st	45	27th	63·1	51·0	56·7	+ 5·5	1	0·87	22	+ 12	7·1	—	45	•	•	57·0	-1·5	52·6	-0·8	Yarmouth.
a Norwich	93	83	21st	42	27th	68·9	49·9	58·8	+ 7·1	1	0·37	9	—	*7·2*	—	*45*	0	39	59·5	•	•	•	*Norwich.*
a Geldeston	37	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	Geldeston.
p Cambridge	41	82	21st	38	27th	68·6	45·7	56·5	+ 3·4	1	0·15	4	- 7	7·9	+ 1·3	50	0	33	58·3	+3·0	52·7	+0·7	Cambridge.
b, South .. a Clacton-on-Sea	54	72	22nd	44	27th	64·3	50·7	57·1	+ 5·4	0	0·00	0	—	7·1	—	45	0	38	58·7	+3·2	53·9	+1·3	Clacton.
a Rothamsted	424	78	21st	38	27th	65·9	46·0	55·4	+ 3·3	*3*	*0·07*	2	- 9	8·7	+ 2·2	55	1	28	56·0	•	•	•	Rothamsted.
p Tottenham	51	81	21st	44	27th	68·0	49·7	58·6	+ 5·2	0	0·00	0·1	—	8·3	—	53	0	41	•	•	53·6	+1·5	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. a Harrogate	479	69	21st	39	27th	62·7	45·0	53·3	+ 3·0	2	0·48	12	0	5·6	—	35	0	32	53·4	+2·8	50·1	+1·5	Harrogate.
p Buxton	*987*	*74*	*21st*	*35*	*27th*	*63·3*	*42·6*	*52·3*	*+ 3·7*	*2*	*0·09*	*2*	*- 16*	*6·9*	—	*43*	3	22	55·3	+2·1	46·7	-0·2	*Buxton.*
a Bawtry	65	79	21st	38	27th	67·6	45·7	56·0	+ 3·5	1	0·02	1	- 10	6·1	—	38	0	35	56·6	+4·2	48·6	+1·1	Sheffield.
a Nottingham	82	79	21st	36	27th	67·4	47·3	56·8	+ 4·4	3	0·09	2	- 9	6·4	+ 0·8	40	0	31	56·4	•	51·5	•	Worksop.
b, East .. p Birmingham, Edgbsn.	535	78	21st	41	26th	66·9	48·3	57·0	+ 4·9	3	0·22	6	- 6	6·6	—	41	0	36	58·7	+3·9	51·4	+1·6	Nottingham.
a Raunds	203	83	21st	35	27th	69·6	45·7	56·9	+ 4·5	2	0·14	4	—	7·5	—	47	1	29	53·5	+2·8	47·6	+0·4	Birmingham.
p Oxford	208	80	21st	40	27th	67·7	47·4	56·9	+ 3·6	3	0·20	5	- 5	*8·4*	—	*53*	1	26	58·1	•	49·6	•	*Raunds.*
														8·4	+ 2·0	53	0	34	•	•	•	•	Oxford.
a Cheadle	646	78	21st	40	26th	66·9	47·1	56·4	+ 5·6	1	0·07	2	- 11	•	•	•	0	38	•	•	•	•	Cheadle.
c, West .. p Shrewsbury	191	78	21st	37	27th	66·9	45·1	55·4	+ 2·4	3	0·76	19	—	•	•	•	0	35	•	•	•	•	Shrewsbury.
a Hereford§	291	77	21st	35	27th	66·6	46·6	56·0	+ 2·9	3	1·46	37	+ 25	*8·6*	•	*54*	0	33	58·9	•	52·7	•	*Malvern.*§
a Bath	66	78	21st	37	26th	66·6	46·7	56·1	+ 2·7	2	0·58	15	+ 4	6·8	—	43	•	•	59·2	+2·5	53·2	+0·4	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	77	21st	33	26th	65·3	44·4	54·2	+ 3·8	3	0·24	6	- 5	10·4	—	66	0	38	60·1	+2·6	53·7	+1·5	Worthing.
a Margate	53	76	21st	47	27th	65·3	52·9	58·7	+ 6 0	1	0·01	0·2	- 9	7·4	+ 1·3	47	2	28	57·6	•	51·2	•	Marlborough.
a Wisley, Surrey	150	80	21st	35	27th	69·0	45·3	56·4	+ 2·5	2	0·08	2	—	6 1	- 0·3	59	0	40	60·1	+4·6	55·3	+3·9	Margate.
p Salisbury (Wilton)	180	79	21st	36	26, 27	65·7	43·9	54·2	+ 0·3	2	0·28	7	- 4	9·2	—	59	1	24	54·6	+1·7	51·6	—0·3	Wisley.
a Tunbridge Wells	354	77	21st	36	27th	67·0	46·0	55·9	+ 3·4	1	0·07	2	- 9	•	•	•	0	32	60·1	•	•	•	Salisbury.
														9·0	+ 2·2	57	1	27	58·5	+0·8	53·1	•	Tunbridge Wells.
a Dungeness	21	66	21st	38	27th	61·6	47·6	54·2	+ 1·5	3	0·25	6	- 1	•	•	•	•	•	•	•	•	•	
p Hastings	178	73	22nd	43	27th	64·7	50·0	56·9	+ 3·7	2	0·20	5	- 4	9·6	+ 1·9	61	0	34	60·7	•	54·1	•	Littlestone.
p Southampton	64	76	21st	42	27th	66·0	48·7	56·8	+ 1·8	2	0·24	6	- 5	9·3	+ 2 1	59	0	31	•	•	•	•	Hastings.
a Ventnor	59	70	21st	45	26, 27	63·1	49·9	56·1	+ 2·2	1	0·21	5	- 5	10·1	+ 2·8	65	•	•	•	•	•	•	Southampton.
																							Ventnor.
LONDON. p Kew	18	79	21st	42	27th	68·9	48·7	58·2	+ 4·4	1	0·04	1	- 9	8·3	+ 1·7	53	0	32	58·8	+3·1	52·3	+1·3	Kew.
a Westminster	*27*	*81*	*21st*	*41*	*27th*	*69·7*	*48·4*	*58·4*	*+ 4·3*	*1*	*0·07*	*2*	*- 8*	*9·0*	*+ 3·5*	*57*	0	35	•	•	•	•	*Westminster.*
a Greenwich	*155*	*82*	*21st*	*39*	*27th*	*71·3*	*47·0*	*58·4*	*+ 4·1*	*1*	*0·08*	*2*	*- 8*	*8·4*	*+ 2·3*	*54*	1	30	•	•	•	•	*Greenwich.*
a Hampstead	*450*	*79*	*21st*	*42*	*26th*	*66·9*	*48·5*	*57·2*	—	*3*	*0·15*	*4*	—	*7·6*	—	*48*	0	31	•	•	•	•	*Hampstead.*
a Camden Square	*110*	*85*	*21st*	*43*	*27th*	*72·4*	*49·9*	*60·5*	—	*2*	*0·09*	*2*	—	*6·2*	—	*40*	0	41	•	•	•	•	*Camden Square.*
7. a, ENGLAND, N.W.																							
a Aspatria (Mealsgate)	487	63	21, 24	40	26, 27	59·9	46·1	52·6	+ 2·1	2	0·24	6	- 8	5·4	—	34	•	•	•	•	•	•	Hoylake.
p Newton Rigg	559	71	21st	34	27th	62·4	43·6	52·4	+ 2·7	3	0·11	3	- 11	6·1	—	37	0	38	54·3	•	48·9	•	Aspatria.
p Stonyhurst	375	75	21st	39	27th	63·4	45·9	54·1	+ 2·7	2	0·18	5	- 11	6·7	+ 0·2	41	1	29	55·8	•	48·8	+0·6	Newton Rigg.
p Blackpool	66	73	21st	42	26, 27	63·1	47·4	54·8	+ 3·1	4	0·24	6	- 6	4·5	- 1·9	28	0	35	•	•	•	•	Stonyhurst.
a Southport	*37*	*73*	*21st*	*40*	*27th*	*63·6*	*46·9*	*54·8*	*+ 3·1*	*4*	*0·19*	*5*	*- 7*	6·3	- 0·3	39	0	31	57·6	•	50·1	•	Blackpool.
a Liverpool (Bidston)	188	74	21st	43	26th	63·0	48·7	55·4	+ 3·3	5	0·71	18	+ 7	*5·8*	*- 1·2*	*36*	0	34	59·6	+2·6	51·0	+1·1	*Southport.*
a Hawarden Bridge	22	76	21st	42	27th	64·7	50·1	57·0	+ 3·8	5	1·85	47	+ 37	*6·1*	—	*38*	•	•	•	•	•	•	*Liverpool.*
p Manchester (Whit. Pk.)	125	78	21st	43	26, 27	67·6	48·1	57·3	+ 4·0	3	0·11	3	- 8	*5·2*	—	*32*	0	39	57·3	+3·6	51·5	+1·8	*Manchester (City).*
														5·5	*+ 0·4*	*34*	•	•	•	•	•	•	" *(Whit. Park)*
b NORTH WALES.																							
p Llandudno	71	65	21st	42	26, 27	59·3	46·7	52·6	+ 0·3	7	1·46	37	+ 26	4·8	- 2·0	30	•	•	•	•	•	•	Llandudno.
a Holyhead	15	61	22nd	42	27th	57·6	46·7	51·8	+ 0·4	4	0·76	19	+ 8	5·7	—	*36*	•	•	•	•	•	•	*Holyhead.*
p Bettws-y-Coed	148	73	21st	39	27th	63·7	44·3	53·4	+ 1·3	4	1·73	44	—	4·3	—	27	•	•	53·6	+1·3	49·0	+0·3	Bettws-y-Coed.
														4·6	—	29	•	•	•	•	•	•	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. in Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.		Deviation from Normal.	Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average.	
	Ft.	°F		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														4·8	—	30	*	*	*	*	*	*	Aberystwyth.
a Llangammarch Wells	550	75	21st	36	27th	62·6	45·6	53·6	+ 2·8	5	1·80	46	—	5·6	—	35	0	31	55·7	+2·6	49·5	+0·8	Llangammarch.
a Pembroke	149	58	23rd	46	21st	54·4	48·0	51·0	- 0·5	4	0·28	7	- 3	5·9	- 1·4	37	*	*	*	*	*	*	Pembroke.
p Cardiff	202	75	21st	42	27th	64·6	46·7	55·1	+ 1·5	3	1·48	38	+ 24	*8·2*	—	*52*	0	35	59·9	+3·9	51·1	+0·2	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	79	21st	45	26, 27	67·3	49·3	57·8	+ 3·8	3	1·73	44	+ 31	*9·0*	—	*57*	0	42	*	*	*	*	*Clifton.*
a Shaftesbury	722	74	21st	40	26th	63·3	47·6	55·9	+ 3·7	2	0·50	13	+ 1	*	*	*	*	*	57·4	*	51·7	*	Shaftesbury.
a Arlington	613	75	21st	39	26, 27	60·9	44·0	51·9	+ 0·7	5	0·42	11	- 5	*	*	*	*	*	*	*	*	*	Arlington.
a Newquay	*190*	*61*	*23rd*	*41*	*26th*	*56·7*	*45·7*	*50·9*	- 1·8	*5*	*0·36*	*9*	+ 1	5·4	- 1·9	35	*	*	57·3	*	52·2	*	Newquay.
a Cullompton	202	77	21st	36	26th	65·9	46·9	55·8	+ 2·7	3	0·76	19	+ 7	7·0	+ 0·3	45	0	32	59·2	*	*	*	Cullompton.
a Portland Bill	19	64	21st	49	24, 26	58·7	51·0	54·6	+ 1·8	3	0·17	4	—	*9·6*	—	*62*	*	*	*	*	*	*	*Weymouth.*
p Plymouth	116	69	21st	42	26th	61·3	48·9	54·7	+ 0·7	3	0·08	2	- 10	6·4	- 0·9	41	*	*	59·2	+2·4	52·8	*	Plymouth.
a Falmouth	167	63	21st	42	26th	59·6	46·9	52·9	- 0·1	4	0·11	3	- 9	5·4	- 2·4	35	0	33	59·2	*	54·3	*	Falmouth.
9. IRELAND, N.																							
a Malin Head	208	63	21st	43	26th	55·3	46·6	50·7	+ 0·5	7	1·68	43	+ 31	*4·3*	—	*26*	*	*	*	*	*	*	*Malin Head.*
a, West .. *a* Blacksod Point ..	?	61	21st	43	25th	55·7	45·7	50·4	- 1·3	7	0·92	23	+ 8	*	*	*	*	*	*	*	*	*	
p Markree Castle ..	122	64	21st	36	27th	59·3	43·4	50·9	+ 0·1	6	1·02	26	+ 11	3·5	- 2·6	22	0	32	55·4	*	49·9	*	Markree Castle.
a Birr Castle	175	61	21st	40	26th	58·4	45·9	51·8	- 0·2	6	0·94	24	+ 11	*3·7*	*- 2·3*	*23*	*	*	*	*	*	*	*Birr Castle.*
b, East .. *p* Armagh	196	63	22nd	42	25, 26	58·3	45·9	51·7	+ 0·6	7	1·71	44	+ 29	3·2	- 2·8	20	0	40	55·1	+0·3	50·5	-0·2	Armagh.
a Donaghadee	101	62	22nd	43	26th	56·0	46·6	51·0	0·0	6	1·57	40	+ 27	*	*	*	0	38	56·7	+2·1	51·8	+0·5	Trinity Coll.
														3·0	- 3·9	19	0	32	*	*	*	*	Phœnix Park.
10. IRELAND, S.														*	*	*	0	42	*	*	*	*	Dublin City.
p Dublin, City	47	63	22nd	45	26th	58·9	48·9	53·6	+ 0·1	6	0·65	17	+ 5	*	*	*	*	*	*	*	*	*	
a, East .. *a* Kilkenny	212	62	22nd	37	26th	58·1	46·6	52·0	0·0	6	1·87	48	+ 35	*	*	*	*	*	*	*	*	*	
a Waterford	20	63	21st	39	26th	59·6	47·0	52·9	+ 0·2	4	0·88	22	+ 8	*	*	*	*	*	*	*	*	*	
a Seskin, Carrick-on-Suir	*541*	*61*	*22nd*	*40*	*26th*	*57·4*	*44·6*	*50·6*	—	*6*	*0·98*	*25*	—	*3·9*	—	*25*	1	30	*	*	*	*	*Seskin.*
a Birr Castle	175	61	21st	40	26th	58·4	45·9	51·8	- 0·2	6	0·94	24	+ 11	3·7	- 2·3	23	*	*	*	*	*	*	Birr Castle.
a Foynes	50	64	21st	39	27th	59·7	45·4	52·1	- 1·0	5	0·38	10	- 3	*	*	*	*	*	*	*	*	*	
b, West .. *a* Cahir	199	63	22nd	35	26, 27	58·9	43·3	50·6	- 1·9	5	1·01	26	—	*	*	*	*	*	*	*	*	*	
a Killarney	174	62	22nd	39	27th	58·9	45·5	51·8	- 0·5	6	0·99	25	+ 8	*	*	*	*	*	*	*	*	*	
a Valencia	30	59	21st	41	26th	56·0	45·9	50·7	- 2·0	5	1·50	38	+ 21	8·0	+ 1·2	50	*	*	*	*	*	*	Valencia.
a Roche's Point	32	62	22nd	34	24th	57·0	43·7	50·0	- 2·7	6	0·64	16	+ 2	5·8	—	37	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	59	23rd	47	21, 25	57·0	48·3	52·4	- 1·0	4	0·75	19	+ 10	6·0	- 1·8	38	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	77	21st	45	26th	66·1	50·9	58·0	+ 3·4	0	0·00	0	- 11	7·2	- 0·9	47	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	77	21st	45	26th	66·1	51·6	58·4	+ 4·6	2	0·09	2	- 9	10·0	+ 1·6	65	0	36	61·3	+4·3	55·1	+2·0	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, May 27th, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Above Ground.	Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Gales, force 8 or more. Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	High Winds, forces 6 and 7. Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.	Date and Hour.	Highest Gust with Date and Time.
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	m/s.		m/s. d. h. m.
1. SCOTLAND, E.														
Dyce	305	75	‡15**	—	—	—	—	1	120	47	0	— 6	23rd 13h.	12 23rd 13 . 48
Aberdeen*	153	105	37 ‡	—	—	—	—	18	105	45	0	SE. by E. 9	25th 23h.	13 25th 22 . 14
			52 †											
Edinburgh	485	39	31	—	—	—	—	37	111	20	0	W. by N. 9	22nd 8h.	13 22nd 8 . 8
6. SCOTLAND, W.														
Eskdalemuir	850	50	22	—	—	25th	4	61	55	48	0	E. by N. 13	25th 12h.	19 25th 10 . 15
Paisley	188	81	52	—	—	—	—	44	81	43	0	E. by S. 9	25th 12h.	18 25th 12 . 20
2. ENGLAND, N.E.														
Alnwick Castle	340	70	17	—	—	—	—	—	—	—	—	— —	— —	— — —
South Shields	72	61	12	—	—	—	—	30	74	63	1	SE. by S. 10	24th 21h.	13 22nd 11 . 42
Spurn Head	66	40	‡	—	—	—	—	42	73	26	27	— 11	24th 15h.	13 24th 15 . 4
3. ENGLAND, E.														
Gorleston	52	42	‡	—	—	—	—	56	94	18	0	— 9	21st 13h.	10 21st 16 . 5
Shoeburyness	103	90	‡	—	—	—	—	38	121	9	0	SW. by S. 9	25th 14h.	12 25th 15 . 26
4. MIDLAND COUNTIES.														
Benson	270	84	‡	—	—	—	—	26	102	40	0	SSW. 8	21st 15h.	12 21st 15 . 6
5. ENGLAND, S.E.														
Dover	271	40	‡	—	—	—	—	23	74	71	0	— 10	26th 13h.	14 22nd 18 . 10
Warlingham	642	33	‡	—	—	—	—	2	62	104	0	— 6	25th 16h.	12 25th 15 . 15
Brighton	261	53	6	—	—	—	—	3	106	59	0	— 8	22nd 13h.	10 25th 5 . 13
Kew Observatory ..	82	65	6 ‡	—	—	—	—	9	93	66	0	SW. by S. 8	25th 16h.	13 25th 15 . 34
			22 †											
South Kensington ..	123	92	30	—	—	—	—	—	94	74	0	SSW. 5	25th 15h.	10 25th 12 . 57
7. ENGLAND, N.W.														
Carnforth	246	56	23	—	—	—	—	5	73	90	0	SW. 7	22nd 11h.	13 22nd 13 . 2
Southport	89	62	48	—	—	22, 23, 25	3	74	82	9	0	W. 11	23rd 2h	15 23rd 1 . 31
Holyhead*	60	40	‡	—	—	23rd	3	81	79	5	0	SW. by S. 11	23rd 14h.	16 23rd 12 . 50
8. ENGLAND, S.W.														
Pendennis Castle§ ..	256	65	24	—	—	—	—	43	92	33	0	SE. 9	26th 18h.	15 22nd 12 . 35
Plymouth	185	88	‡	—	—	—	—	23	93	52	0	— 9	22nd 15h.	14 22nd 14 . 13
Lyme Regis	556	61	‡	—	—	—	—	12	60	87	9	— 10	22nd 15h.	14 22nd 14 . 48
10. IRELAND, S.														
Quilty	100	40	‡	—	—	26th	2	65	62	12	27	— 11	26th 3h.	18 26th 3 . 20
Weaver Pt.	160	30	‡	—	—	—	—	—	—	—	—	— —	— —	— — —
11. ENGLISH CHANNEL.														
Scilly*	150	32	‡	—	—	—	—	39	90	39	0	NW. by N. 10	25th 9h.	15 25th 8 . 30
		19												

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.

† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

TWENTY-FIRST WEEK—May 21st to May 27th, 1916.

DISTRICTS, (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
			Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	66	35	87·1	80·6	83·6	+ 1·3	64	+ 12	0	− 4	4	0	0·55	14	0	3·5	−2·1	21	1012
Eastern.																			
1. SCOTLAND, EAST ...	69	31	88·6	79·9	84·0	+ 1·2	69	+ 10	0	− 4	5	+ 2	0·43	11	− 2	5·1	−1·1	31	1013
2. ENGLAND, N.E.	81	36	90·5	81·4	85·7	+ 2·3	90	+ 28	0	− 1	2	− 1	0·16	4	− 6	6·3	−0·2	39	1014
3. ENGLAND, EAST ...	83	38	92·2	82·2	86·9	+ 2·4	105	+ 28	0	− 1	1	− 2	0·22	6	− 5	7·6	+0·7	48	1015
4. MIDLAND COUNTIES ...	83	35	92·4	81·1	86·4	+ 2·0	99	+ 22	0	− 2	2	− 1	0·40	10	− 3	6·8	+0·7	42	1014
5. ENGLAND, S.E.	80	33	91·7	81·7	86·4	+ 1·2	99	+ 14	0	0	2	− 1	0·16	4	− 7	8·8	+1·9	56	1015
Western.																			
6. SCOTLAND, WEST ...	72	36	88·1	81·2	84·4	+ 0·7	74	+ 7	0	− 2	5	+ 1	0·77	20	+ 4	5·2	−1·4	32	1013
7. ENGLAND, N.W.	78	34	89·9	81·2	85·3	+ 1·1	85	+ 13	0	− 1	4	+ 1	0·74	19	+ 6	5·3	−1·3	33	1013
8. ENGLAND, S.W.	79	36	89·6	81·6	85·3	+ 0·6	85	+ 6	0	− 1	4	+ 1	0·73	19	+ 6	5·8	−1·0	37	1015
9. IRELAND, NORTH ...	64	36	87·0	80·6	83·6	− 0·3	64	− 4	0	− 1	7	+ 3	1·31	33	+ 19	3·4	−3·0	21	1011
10. IRELAND, SOUTH ...	64	34	87·7	80·7	83·9	− 0·8	68	− 9	0	0	5	+ 2	0·98	25	+ 11	5·1	−1·7	32	1014
11. ENGLISH CHANNEL ...	77	45	90·3	83·2	86·5	+ 1·1	100	+ 11	0	0	2	− 1	0·28	7	− 5	7·7	−0·3	50	1015

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 13 Weeks, February 27th to May 27th, 1916.

0. SCOTLAND, NORTH ...	76	20	81·6	75·7	78·5	− 0·4	273	− 61	276	+ 17	62	+ 3	9·39	237	− 23	3·5	−0·7	25	1009
Eastern.																			
1. SCOTLAND, EAST ...	77	18	81·9	75·0	78·3	− 0·8	316	− 87	339	+ 58	59	+10	9·36	238	+ 78	3·7	−0·9	27	1009
2. ENGLAND, N.E.	81	20	83·3	76·4	79·7	0·0	430	+ 21	227	+ 20	55	+10	7·88	199	+ 71	4·0	−1·0	30	1009
3. ENGLAND, EAST ...	83	24	84·5	76·9	80·5	+ 0·2	533	+ 7	201	− 18	50	+ 6	7·25	183	+ 60	4·6	−0·5	34	1009
4. MIDLAND COUNTIES ...	83	21	84·3	76·2	80·1	− 0·2	510	− 31	246	+ 14	52	+10	8·27	211	+ 74	4·0	−0·6	30	1009
5. ENGLAND, S.E.	80	18	85·0	77·4	81·0	0·0	590	+ 21	175	+ 24	50	+ 9	7·64	193	+ 63	4·9	−0·3	37	1009
Western.																			
6. SCOTLAND, WEST ...	77	17	82·8	76·3	79·4	− 0·5	384	− 52	228	+ 36	54	+ 4	9·38	240	+ 7	4·2	−0·6	31	1010
7. ENGLAND, N.W.	79	8	83·3	76·8	79·9	− 0·4	440	− 19	203	+ 39	51	+ 6	8·00	205	+ 37	4·1	−0·7	31	1009
8. ENGLAND, S.W.	79	17	84·0	77·2	80·4	− 0·6	511	− 31	193	+ 67	52	+ 8	8·43	216	+ 29	4·8	−0·4	36	1010
9. IRELAND, NORTH ...	76	18	82·9	76·4	79·5	− 0·9	383	− 90	212	+ 59	61	+ 7	9·93	254	+ 62	3·9	−0·7	29	1010
10. IRELAND, SOUTH ...	77	20	83·9	77·2	80·4	− 0·8	485	− 82	165	+ 52	62	+13	9·21	232	+ 26	4·5	−0·6	34	1011
11. ENGLISH CHANNEL ...	79	30	84·7	79·2	81·8	− 0·3	611	− 17	64	+ 25	52	+ 5	7·44	187	+ 32	5·5	−0·7	42	1010

THE YEAR.—Aggregates, &c., for the Period of 21 Weeks, January 2nd to May 27th, 1916.

0. SCOTLAND, NORTH ...	76	20	81·0	75·4	78·2	+ 0·3	375	− 13	454	− 99	109	+ 9	24·87	630	+115	2·7	−0·4	24	1007
Eastern.																			
1. SCOTLAND, EAST ...	77	7	81·2	74·8	77·9	0·0	412	− 52	583	− 34	95	+15	15·64	399	+126	3·2	−0·4	28	1009
2. ENGLAND, N.E.	81	20	82·5	76·1	79·2	+ 0·7	590	+111	379	− 96	83	+ 9	10·90	277	+ 71	3·3	−0·5	29	1010
3. ENGLAND EAST ...	83	24	83·3	76·5	79·8	+ 1·0	702	+ 99	353	−168	83	+10	11·77	297	+ 98	3·6	−0·4	31	1012
4. MIDLAND COUNTIES ...	83	21	83·2	75·9	79·5	+ 0·6	682	+ 51	405	−127	84	+13	12·67	323	+ 90	3·2	−0·4	27	1011
5. ENGLAND, S.E.	80	15	83·8	77·0	80·3	+ 0·7	790	+118	294	− 87	86	+17	12·78	324	+ 93	3·8	−0·2	33	1012
Western.																			
6. SCOTLAND, WEST ...	77	17	82·0	76·1	79·0	+ 0·1	512	− 4	365	− 59	99	+13	18·24	465	+ 28	3·3	−0·3	28	1010
7. ENGLAND N.W.	79	8	82·7	76·8	79·7	+ 0·6	607	+ 65	310	− 76	90	+12	14·44	368	+ 70	3·2	−0·4	28	1011
8. ENGLAND, S.W.	79	17	83·1	77·3	80·1	+ 0·2	705	+ 29	279	− 22	93	+16	16·44	422	+ 75	3·6	−0·4	31	1013
9. IRELAND NORTH ...	76	18	82·5	76·3	79·3	− 0·1	555	− 28	334	− 11	105	+13	16·37	418	+ 75	3·2	−0·3	28	1010
10. IRELAND, SOUTH ...	77	20	83·4	77·1	80·2	− 0·1	706	− 26	244	− 15	110	+27	16·40	414	+ 35	3·6	−0·3	31	1013
11. ENGLISH CHANNEL ...	79	30	84 0	79·2	81·5	+ 0·2	883	+ 59	85	− 24	95	+11	14·40	363	+ 73	4·2	−0·6	36	1013
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	m.m.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics
South Kensington, S.W., June 1st, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) No. 22. SUNDAY, MAY 28TH, TO SATURDAY, JUNE 3RD, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE TWENTY-SECOND WEEK OF 1916.

The beginning of the week was marked by bright fairly warm weather, which gave place later to a cloudy period with rain over a great part of the country and lower temperature. The last two days again showed less cloud but temperature remained low; so that the mean temperature for the week was below the normal for the whole country. The departures in the different districts varied from −1°·9 A. (3°·4 F.) in Ireland North to zero in England North-East. The highest day temperature of the week, which occurred generally between the 28th and the 30th of May, reached 297° A. (75° F.) at Greenwich, but at few other stations exceeded 294° A. (70° F.). The lowest temperature recorded was at most places about 277° A. (40° F.), but Balmoral reported 272° A. (30° F.) on the night of the 30th. Rainfall was much above the average in the whole of Scotland and also in Ireland North. In most other districts it was light and in England South-East and the Channel the week was almost rainless. Thunderstorms were very prevalent over all the eastern parts of the country, yet heavy falls of rain were scarce; 39 mm. at Fort William, 28 at Eskdalemuir and 26 at Poltalloch, in each case on the 31st, being the only falls greater than 25 mm. in 24 hours. Bright sunshine was below the normal in Scotland North and Ireland North while in the English Channel the records averaged 2·7 hours per day above the average, and over the country as a whole there was a slight excess. Halos were observed at a good many stations on different days and a sun pillar at Oxford on Monday. Sea temperature was decidedly below the normal at Wick, −2°·4 A. (4°·3 F.), but in most other districts it was slightly in excess.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		ENGLAND, E.		NORTH WALES.		ENGLAND, S.W.		IRELAND, S.	
	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.
		m/s		m/s		m/s		m/s		m/s
South	3	2·9	3	2·6	3	5·4	1	3·0	3	4·1
North	4	4·2	4	1·5	4	1·0	6	3·6	4	2·5
West	4	5·5	4	2·3	7	3·9	6	3·5	6	3·4
East	3	2·6	3	2·0	¼	0·9	0	—	1	0·5
Calm	0	—	0	—	0	—	0	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH AVERAGE.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel
Comparison with average for the time of year ... Warmth ...	Deficient	Deficient	Moderate	Moderate	Moderate	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Moderate
Rainfall ...	Very heavy	Heavy	Moderate	Light	Light	Very light	Heavy	Moderate	Moderate	Very heavy	Moderate	Very light
Sunshine ...	Moderate	Moderate	Moderate	Moderate	Moderate	Abundant	Abundant	Abundant	Abundant	Moderate	Moderate	Abundant

II.—THE SPRING SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SPRING. 14 weeks from Feb. 27th, 1916. Warmth ...	2, 5, 7	3, 2, 9	4, 6, 4	4, 8, 2	3, 7, 4	4, 5, 5	2, 6, 6	3, 5, 6	3, 5, 6	1, 6, 7	2, 5, 7	4, 4, 6
Rainfall ...	5, 6, 3	7, 6, 1	7, 2, 5	8, 3, 3	8, 2, 4	7, 3, 4	6, 4, 4	6, 3, 5	6, 4, 4	7, 3, 4	3, 7, 4	4, 7, 3
Sunshine ...	1, 7, 6	1, 6, 7	2, 6, 6	4, 3, 7	4, 3, 7	6, 1, 7	3, 6, 5	4, 6, 4	4, 6, 4	0, 9, 5	3, 6, 5	4, 3, 7

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1° A. = increment of $\frac{9}{5}$° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(8317—19.) Wt. 79a—736. 450. 6/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.							Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average.	
0. SCOTLAND, N.	Ft.	°F.	—	°F.	—	°F.	°F.	°F.	°F.	—	in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
p Baltasound	*31*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	*Baltasound.*
a Islands .. *a* Lerwick	54	56	29th	39	3rd	51·0	44·0	47·3	+ 0·6	6	1·39	35	—	5·7	+ 0·2	32	•	•	•	•	•	•	Deerness.
a Stornoway	51	57	28th	40	29th	53·7	43·0	48·0	− 1·0	7	1·30	33	+ 19	4·9	- 1·3	28	•	•	•	•	•	•	Stornoway
a Castlebay, Barra Isd. ..	*37*	*54*	*28, 29*	*43*	*31st*	*52·9*	*45·1*	*48·8*	*− 0·9*	*5*	*1·18*	*30*	—	*8·3*	—	*49*	•	•	•	•	•	•	*Castlebay.*
a Wick	81	60	1st	40	3rd	53·1	44·6	48·6	− 0·5	5	0·56	14	+ 3	•	•	•	•	•	•	•	•	•	
b, Mainland. *p* Strathpeffer	200	62	29th	39	28th	57·1	41·0	48·6	− 1·9	7	0·96	24	+ 13	4·0	- 1·5	23	•	•	•	•	•	•	Strathpeffer.
p Glencarron	500	58	29th	39	30th	53·3	41·7	47·2	− 2·3	6	2·67	68	+ 43	•	•	•	•	•	•	•	•	•	
p Fort Augustus	68	63	29th	37	29, 30	57·3	41·3	48·8	− 1·7	5	1·07	27	+ 15	3·6	- 0·9	21	•	•	•	•	•	•	Fort Augustus.
p Fort William	171	64	29th	37	29th	58·4	42·1	49·8	− 1·8	7	2·09	53	+ 32	•	•	•	•	•	•	•	•	•	
1. SCOTLAND, E.														4·6	—	27	3	28	52·7	-0·2	48·7	0·0	Crathes.
p Gordon Castle	101	64	28th	41	31st	58·6	43·7	50·7	− 0·3	7	1·51	38	+ 28	*5·1*	—	*30*	•	•	•	•	•	•	*Gordon Castle.*
a Nairn	82	61	29th	39	30th	57·4	42·7	49·6	− 1·6	7	1·02	26	+ 16	5·5	—	32	•	•	•	•	•	•	Nairn.
a Aberdeen	46	61	1st	41	29th	57·4	44·3	50·5	+ 0·2	4	0·87	22	+ 11	6·3	+ 0·1	37	•	•	•	•	47·8	-0·2	Aberdeen.
a Balmoral	930	61	30th	30	31st	53·9	37·0	44·9	− 3·8	5	0·65	17	+ 3	•	•	•	3	27	•	•	•	•	Balmoral.
p Crieff	432	64	29th	35	3rd	59·4	49·6	54·2	+ 1·6	5	0·84	21	+ 6·	7·2	—	43	•	•	•	•	•	•	Balruddery.
a Leith	18	64	1st	40	3rd	60·1	43·7	51·4	− 0·9	4	0·59	15	+ 5	•	•	•	•	•	•	•	•	•	
a West Linton	769	62	29th	32	30th	56·7	39·0	47·3	− 1·5	5	1·39	35	—	*6·4*	—	*38*	1	28	•	•	•	•	*West Linton.*
p Marchmont	498	64	28, 30	38	30, 3	59·6	41·3	49·9	− 0·1	7	0·93	24	+ 10	6·0	+ 0·1	36	0	31	•	•	•	•	Marchmont.
a Edinburgh	*441*	*61*	*29, 30*	*40*	*3rd*	*58·0*	*43·4*	*50·3*	—	*5*	*0·87*	*22*	—	7·8	—	46	0	35	•	•	•	•	Edinburgh.
6. *a* SCOTLAND, W.														•	•	•	•	•	•	•	•	•	
a Poltalloch	132	62	30th	46	30th	57·1	48·1	52·3	− 0·1	5	1·65	42	+ 26	8·1	+ 2·7	48	0	32	•	•	•	•	
p Glasgow Observatory	180	62	28, 29	42	30, 3	58·6	44·7	51·2	− 1·0	5	1·01	26	+ 12	*7·7*	—	*46*	0	36	55·6	•	50·6	+0·4	Glasgow.
p Rothesay	170	60	28, 29	41	3rd	57·0	43·4	49·8	− 2·6	5	1·44	37	+ 20	*8·8*	—	*53*	•	•	54·6	•	49·7	•	*Rothesay.*
a Kilmarnock	90	64	29, 30	37	29, 3	60·6	43·1	51·3	− 1·1	5	0·98	25	—										*Kilmarnock.*
a Colmonell	170	62	29th	35	29th	58·6	42·4	50·0	− 2·6	4	1·13	29	+ 15	•	•	•	0	31	•	•	•	•	
a Dumfries	160	64	28th	39	3rd	58·4	43·4	50·5	− 2·8	5	1·26	32	+ 18	*6·6*	—	*40*	1	30	54·9	•	52·0	•	*Dumfries.*
Eskdalemuir	*799*	*62*	*28th*	*31*	*29th*	*55·9*	*38·3*	*46·6*	—	*6*	*1·98*	*50*	—	*6·2*	—	*37*	•	•	•	•	•	•	*Eskdalemuir.*
p Cally, Gatehouse	120	65	28, 29	35	30th	60·3	40·1	49·6	− 2·7	4	1·64	39	+ 21	•	•	•	•	•	•	•	•	•	
b. I. OF MAN. *p* Douglas	277	60	28, 29	43	29, 30	56·3	45·1	50·4	− 1·5	3	1·28	33	+ 18	9·5	+ 2·2	58	0	38	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	64	1st	38	28th	59·9	42·6	50·7	+ 0·2	5	0·57	15	+ 3	5·7	—	34	0	33	53·8	−0·3	50·2	+0·4	Cockle Park.
a Tynemouth	71	59	1st	41	3rd	56·7	45·6	50·8	− 0·1	3	0·39	10	− 1	•	•	•	•	•	•	•	•	•	Tynemouth
p Durham	336	65	28, 29	39	3rd	60·4	42·1	50·7	− 0·6	7	0·56	14	+ 3	6·0	+ 0·4	36	0	32	•	•	•	•	Durham.
a North .. *p* Rounton	249	68	28th	39	3rd	61·7	42·1	51·3	+ 0·9	5	0·14	4	− 8	•	•	•	0	32	54·9	•	•	•	Rounton.
a West Witton	*605*	*65*	*28, 29*	*40*	*30th*	*60·7*	*42·6*	*51·1*	—	*6*	*0·38*	*10*	—				0	35	54·8	•	48·3	•	*West Witton.*
p Scarborough†	100	64	31st	43	2, 3	61·4	47·6	54·1	+ 2·3	3	0·19	5	− 6	6·2	—	38	•	•	•	•	50·2	•	Scarborough.
p York	56	69	28th	39	3rd	62·7	43·7	52·6	− 1·0	6	0·49	12	0	6·1	+ 0·3	37	•	•	54·9	+0·8	51·2	+1·2	York.
a Spurn Head	26	66	31st	43	3rd	59·4	47·0	52·8	+ 0·5	3	0·15	4	− 5	*6·7*	—	*41*	•	•	•	•	•	•	*Spurn Head.*
b, South .. *a* Lincoln	58	71	28th	40	3rd	64·4	45·8	54·5	0·0	3	0·07	2	− 9	•	•	•	•	•	57·9	+2·0	52·9	+2·3	Lincoln.
a Fulbeck	180	70	28th	36	3rd	65·1	44·1	54·0	+ 0·5	3	0·15	4	− 7	6·6	—	40	0	37	58·8	−0·8	51·9	−0·1	Ranceby.
														8·0	—	49	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																							
p Cromer	196	67	31st	42	3rd	60·9	45·9	53·0	+ 0·5	1	0·04	1	—	7·6	—	47	•	•	•	•	•	•	Cromer
p Little Massingham	280	70	28th	38	3rd	63·4	43·1	52·6	− 0·8	3	0·10	3	− 8	7·3	+ 0·6	45	0	35	•	•	•	•	Lit. Massingham.
a, North .. *a* Yarmouth	13	65	1st	41	3rd	59·9	45·7	52·4	− 0·2	3	0·12	3	− 7	7·6	—	47	•	•	56·1	-4·3	53·7	-1·2	Yarmouth.
a Norwich	93	68	29, 31	41	28, 3	64·3	45·3	54·2	+ 1·2	4	0·26	7	—	*6·9*	—	*43*	0	38	57·3	•	•	•	*Norwich.*
a Geldeston	37	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	0	38	•	•	•	•	Geldeston.
p Cambridge	41	72	29th	39	3rd	66·0	42·9	53·8	− 0·4	1	0·02	1	− 11	7·7	+ 1·0	48	1	30	58·2	+0·8	54·2	+0·8	Cambridge.
b, South .. *a* Clacton-on-Sea	54	65	29, 31	44	3rd	62·6	49·0	55·4	+ 2·2	1	0·08	2	—	8·4	—	52	0	40	58·6	+1·6	55·2	+1·3	Clacton.
a Rothamsted	424	68	29th	39	3rd	62·3	43·0	52·1	− 1·2	*3*	0·09	2	− 9	8·4	+ 1·9	52	2	29	55·7	•	•	•	Rothamsted.
p Tottenham	51	71	29th	44	3rd	65·1	47·3	55·7	+ 1·1	0	0·00	0	—	7·7	—	48	0	41	•	•	54·9	+1·2	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate	479	65	28th	38	3rd	60·0	42·9	50·9	− 0·5	5	0·46	12	− 1	6·7	—	41	0	32	52·7	+0·9	51·0	+1·1	Harrogate.
p Buxton	*987*	*63*	*28th*	*37*	*28th*	*59·1*	*42·0*	*50·0*	*+ 0·1*	*4*	*0·61*	*15*	*− 3*	*6·5*	—	*40*	2	29	*53·8*	*−0·8*	*48·3*	*+0·2*	*Buxton.*
														6·3	—	39	0	35	54·9	+1·3	50·2	+1·6	Sheffield.
a Bawtry	65	71	28th	38	28th	64·1	43·4	53·1	− 0·7	1	0·10	3	− 8	6·4	+ 0·9	39	0	32	55·1	•	52·5	•	Worksop.
a Nottingham	82	68	28, 29	39	3rd	62·9	46·3	54·1	+ 0·3	3	0·19	5	− 6	5·6	—	34	0	33	56·5	+0·2	52·7	+1·4	Nottingham.
b, East .. *p* Birmingham, Edgbsn.	535	66	28th	42	2nd	61·4	46·0	53·2	− 0·2	2	0·08	2	− 11	5·0	—	31	1	29	52·0	+0·1	48·6	+0·5	Birmingham.
a Raunds	203	72	28th	37	3rd	66·9	43·0	54·2	+ 0·6	1	0·02	1	—	*8·1*	—	*50*	4	25	58·6	•	51·5	•	*Raunds.*
p Oxford	208	68	29th	41	3rd	64·1	45·4	54·2	− 0·2	1	0·02	1	− 10	9·2	+ 2·7	57	0	34	•	•	•	•	Oxford.
a Cheadle	646	67	29th	41	2, 3	62·1	44·6	52·8	+ 0·9	3	0·41	10	− 3	•	•	•	0	39	•	•	•	•	Cheadle.
c, West .. *p* Shrewsbury	191	67	30th	39	28th	63·6	43·6	53·0	− 1·2	2	0·10	3	—	•	•	•	0	35	•	•	•	•	Shrewsbury.
a Hereford§	291	67	30th	39	28, 3	63·3	43·0	52·5	− 1·9	2	0·10	3	− 9	*5·6*	—	*35*	1	30	58·3	•	54·4	•	*Malvern.*§
a Bath	66	68	30th	40	28th	63·6	44·4	53·4	− 1·1	1	0·04	1	− 11	6·3	—	39	•	•	58·3	+0·1	54·5	+0·4	Bath.
5. ENGLAND, S.E.														9·5	—	60	0	39	60·1	+0·7	55·1	+1·6	Worthing.
a Marlborough	424	67	30th	34	28, 29	63·3	38·3	50·1	− 2·6	2	0·08	2	− 10	7·6	+ 1·5	48	3	28	57·3	•	52·3	•	Marlborough.
a Margate	53	68	29th	40	28th	64·0	49·6	56·4	+ 2·3	1	0·07	2	− 7	7·8	+ 1·4	49	0	39	59·7	+3·4	57·2	+4·3	Margate.
a Wisley, Surrey	150	71	29th	39	3rd	65·9	43·0	53·8	− 1·5	0	0·00	0	—	8·4	—	53	4	27	57·0	-0·4	52·8	−0·4	Wisley.
p Salisbury (Wilton)	180	70	29, 30	36	29th	63·3	41·6	51·8	− 3·4	1	0·09	2	− 10	•	•	•	0	32	58·6	•	•	•	Salisbury.
a Tunbridge Wells	354	68	29, 31	39	3rd	64·3	42·7	52·9	− 1·0	2	0·05	1	− 11	7·8	+ 1·0	49	3	28	57·7	-1·9	54·3	•	Tunbridge Wells.
a Dungeness	21	64	29th	40	3rd	61·3	45·6	53·0	− 0·9	1	0·01	0·2	− 8	•	•	•	•	•	•	•	•	•	Littlestone.
p Hastings	178	66	29th	43	3rd	62·0	48·6	54·9	+ 0·5	1	0·01	0·2	− 9	8·9	+ 1·1	50	0	38	60·5	•	55·2	•	Hastings.
p Southampton	64	69	29th	42	29th	64·1	45·6	54·3	− 1·9	2	0·17	4	− 7	8·8	+ 1·6	55	1	30	•	•	•	•	Southampton.
a Ventnor	59	67	30th	45	3rd	62·1	49·0	55·2	+ 0·1	2	0·09	2	− 8	10·0	+ 2·8	63	•	•	•	•	•	•	Ventnor.
LONDON. *p* Kew	18	70	29th	44	3rd	64·9	46·9	55·4	+ 0·3	0	0·00	0·1	− 11	8·4	+ 1·8	53	0	34	58·3	+1·1	53·8	+1·6	Kew.
a Westminster	*27*	*72*	*29th*	*43*	*3rd*	*66·4*	*46·5*	*55·9*	*+ 0·6*	*2*	*0·08*	*2*	*− 8*	*7·3*	*+ 1·7*	*46*	0	35	•	•	•	•	*Westminster.*
a Greenwich	*155*	*75*	*29th*	*41*	*28th*	*68·1*	*45·1*	*55·9*	*+ 0·3*	*1*	*0·43*	*11*	*0*	*7·9*	*+ 1·6*	*49*	3	27	•	•	•	•	*Greenwich.*
a Hampstead	*450*	*69*	*29th*	*40*	*3rd*	*63·2*	*44·3*	*53·5*	—	*2*	*0·02*	*1*	—	*7·9*	—	*49*	0	32	•	•	•	•	*Hampstead.*
a Camden Square	*110*	*74*	*28, 29*	*43*	*3rd*	*68·6*	*47·1*	*57·2*	—	*0*	*0·00*	*0*	—	*6·4*	—	*40*	0	40	•	•	•	•	*Camden Square.*
7. *a*, ENGLAND, N.W.														•	•	•	•	•	•	•	•	•	Hoylake.
a Aspatria (Mealsgate)	487	61	29th	37	3rd	56·1	43·1	49·2	− 2·6	4	1·43	36	+ 22	8·2	—	49	0	35	53·8	•	49·9	•	Aspatria.
p Newton Rigg	559	65	29th	36	3rd	58·9	40·7	49·3	− 2·1	6	1·26	32	+ 18	6·9	+ 0·3	42	0	33	54·6	-0·1	49·9	+0·5	Newton Rigg.
p Stonyhurst	275	63	29th	39	3rd	59·3	43·9	51·1	− 1·6	5	0·62	16	0	7·5	+ 1·1	46	0	34	•	•	•	•	Stonyhurst.
p Blackpool	68	60	30th	46	30th	58·3	48·9	53·3	+ 0·2	3	0·36	9	− 3	9·1	+ 2·5	55	0	36	57·7	•	51·7	•	Blackpool.
a Southport	*37*	*63*	*1st*	*47*	*28, 29, 3*	*58·6*	*48·9*	*53·5*	*+ 0·4*	*3*	*0·22*	*6*	*− 6*	*9·3*	—	*57*	0	33	58·4	-0·2	54·9	+0·6	*Southport.*
a Liverpool (Bidston)	188	61	31, 1	45	29th	58·0	48·0	52·7	− 0·6	3	0·16	4	− 8	*8·6*	—	*53*	0	33	•	•	•	•	*Liverpool.*
a Hawarden Bridge	22	67	28th	40	29th	61·1	49·5	55·0	+ 0·6	4	0·17	4	− 7	*6·0*	—	*37*	0	36	55·9	+0·3	53·5	+2·3	*Manchester (City)*
p Manchester (Whit. Pk.)	125	66	28th	42	3rd	61·4	46·9	53·2	− 1·3	4	0·67	17	+ 5	*6·2*	*+ 1·0*	*38*	•	•	•	•	•	•	" *(Whit. Park)*
b. NORTH WALES.																							
p Llandudno	71	64	1st	42	29, 30	58·4	46·1	51·9	− 1·7	4	0·24	6	− 5	9·6	+ 2·8	59	•	•	•	•	•	•	Llandudno.
a Holyhead	15	58	30th	41	29th	56·1	46·6	51·1	− 1·6	4	0·51	13	+ 2	*9·1*	—	*56*	•	•	•	•	•	•	*Holyhead.*
p Bettws-y-Coed	118	62	30th	38	30th	58·6	43·0	50·3	− 2·6	4	0·79	20	—	5·2	—	32	•	•	51·1	-2·9	50·0	+1·3	Bettws-y-Coed.
														8·0	—	50	•	•	•	•	•	•	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.				Mean for the Week.			Deviation from Normal.	Rainfall.				Bright Sunshine. Hours per Day			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Of Daily Max.	Of Daily Min.	Daily Mean.		No. of Rain-Days.	Rainfall in the week.		Deviation from Normal.	Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft		Earth 4 ft.		
																	Ground Frosts.	Lowest Reading.	Mean.	Deviation from average	Mean.	Deviation from average	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
3. *a*, SOUTH WALES														7·2	—	45							Aberystwyth.
a Llangammarch Wells	550	65	30th	33	29th	59·4	39·4	48·8	− 3·2	4	0·41	10	—	7·0		43	1	29	53·2	−1·3	50·3	+0·7	Llangammarch.
a Pembroke	149	68	28th	44	30th	256·9	48·6	252·5	− 0·2	4	0·63	16	+ 5	9·5	+ 2·2	59							Pembroke.
p Cardiff	202	65	30th	42	3rd	61·0	45·4	52·7	− 2·4	4	0·30	8	− 6	8·7	—	54	0	32	58·1	+0·5	52·9	+0·5	*Cardiff.*
b, ENGLAND, S.W.																							*Clifton.*
a Clifton	229	67	30th	45	28, 3	63·0	47·7	54·9	− 0·3	2	0·18	5	− 8	8·4	—	52	0	41					Shaftesbury.
a Shaftesbury	722	66	30th	40	3rd	61·6	44·9	52·8	+ 0·7	1	0·06	1	− 12						56·9		53·6		Arlington.
a Arlington	613	64	30th	39	29th	58·3	43·1	50·2	− 2·2	3	0·87	22	+ 5										Newquay.
a Newquay	*190*	*60*	*31st*	*39*	*29th*	*56·9*	*47·3*	*51·8*	− *2·3*	*1*	*0·21*	*5*	− *3*	10·3	+ 3·0	65	0	33	58·2				Cullompton.
a Cullompton	202	70	30th	38	3rd	64·9	42·6	53·1	− 1·3	2	0·13	3	− 10	7·1	+ 0·4	45							*Weymouth.*
a Portland Bill	19	65	30th	47	3rd	58·4	50·1	54·0	0·0	0	0·00	0·1	—	*9·5*	—	*60*							Plymouth.
p Plymouth	116	67	30th	43	2, 3	61·7	46·7	53·8	− 1·5	2	0·22	6	− 6	8·4	+ 1·1	53			59·4	+0·8	54·4		Falmouth.
a Falmouth	167	63	30th	43	29th	60·6	46·7	53·2	− 0·9	2	0·36	9	− 4	10·0	+ 2·2	63	0	32	53·8		55·4		
9. IRELAND, N.																							*Malin Head.*
a, West .. { *a* Malin Head	208	56	28–31	43	3rd	54·4	44·9	49·4	− 1·9	5	0·79	20	+ 8	*8·3*	—	*50*							
a Blacksod Point ..	?	56	29th	43	3rd	53·9	45·4	49·4	− 3·3	6	1·62	41	+ 26										Markree Castle.
p Markree Castle ..	122	59	30th	33	29th	57·1	40·4	48·3	− 3·6	6	2·04	52	+ 36	5·6	− 0·3	34	1	30	54·3		50·8		*Birr Castle.*
a Birr Castle	175	62	29th	38	29th	58·0	42·7	49·9	− 3·2	5	0·87	22	+ 9	*5·5*	− *0·4*	*34*							
b, East .. { *p* Armagh	196	62	28, 29	40	28, 30, 3	59·6	42·1	50·3	− 1·6	7	1·50	41	+ 27	5·3	− 0·6	32	0	33	54·3	−1·8	51·1	−0·7	Armagh.
a Donaghadee	101	60	30, 1	44	30, 2, 3	56·7	45·1	50·6	− 1·5	6	1·14	29	+ 16				0	36	57·0	+1·0	52·7	+0·3	Trinity Coll.
10. IRELAND, S.														7·0	+ 0·3	43	0	32					Phœnix Park.
p Dublin, City	47	64	1st	42	3rd	59·9	45·9	52·5	− 2·0	6	0·53	13	+ 2				0	39					Dublin City.
a, East .. { *a* Kilkenny	212	65	1st	39	30, 2	61·0	43·7	51·8	− 1·4	5	0·61	16	+ 3										
a Waterford	20	63	28, 29	43	30, 3	60·7	47·0	53·4	− 0·7	5	0·67	17	+ 3										
a Seskin, Carrick-on-Suir	*541*	*61*	*29, 1*	*40*	*3rd*	*58·9*	*43·3*	*50·6*	—	*5*	*0·62*	*16*	—	*5·8*	—	*36*	0	37					*Seskin.*
b, West .. { *a* Birr Castle	175	62	29th	38	29th	58·0	42·7	49·9	− 3·2	5	0·87	22	+ 9	5·5	− 0·4	34							Birr Castle.
a Foynes	50	63	28th	43	28th	59·0	46·0	52·1	− 1·9	5	0·80	20	+ 7										
a Cahir	199	64	29, 1	39	30th	60·7	45·1	52·4	− 1·3	6	0·88	22	—										
a Killarney	174	64	29th	39	28, 30	60·4	45·0	52·2	− 1·4	6	0·70	18	+ 1										Valencia.
a Valencia	30	57	30th	40	28, 31	55·1	42·7	48·5	− 5·3	6	0·83	21	+ 3	7·2	+ 0·5	45							Ballinacurra.
a Roche's Point	32	60	29th	43	1st	58·0	46·0	51·6	− 2·3	6	0·44	11	− 4	6·0	—	37							
11. ENGLISH CHANNEL.																							Scilly.
a Scilly, St. Mary's ..	131	62	31st	46	29th	59·4	49·0	53·9	− 0·7	2	0·08	2	− 8	11·3	+ 3·4	71							St. Heliers.
a Jersey, St. Aubins ..	25	66	29th	44	1st	61·4	49·1	54·9	− 0·8	1	0·04	1	− 11	10·4	+ 2·3	66							Guernsey.†
a Guernsey (Villa Carey)	180	66	28th	47	28, 29	63·1	49·3	55·8	+ 0·6	2	0·02	1	− 11	10·5	+ 2·1	67	0	37	60·9	+2·4	56·5	+2·1	

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, June 3rd, 1916.

DISTRICT AND STATION.	Height.			Distribution of Wind.								Extreme Velocities					
				Gales, force 8 or more.		High Winds, forces 6 and 7.		Fresh or Moderate Winds, forces 4 and 5.	Light Winds, forces 2 and 3.	Calms and Light Airs, forces 0 and 1.	No Record.	Highest Hourly Wind.			Highest Gust with Date and Time.		
	Above Mean Sea Level.	Above Ground.	Above Building.	Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Velocity.	Date and Hour.				
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.	d.	h.	m/s.	d.	h. m.
1. SCOTLAND, E.																	
Dyce	305	75	‡15**	—	—	—	—	6	102	60	0	—	6	2nd	8h.	15	2nd	8 . 40
Aberdeen*	153	105	37 ‡ / 52 †	—	—	—	—	44	80	44	0	WNW.	10	1st	24h.	17	2nd	17 . 37
Edinburgh	485	39	31	—	—	31, 1	5	70	82	11	0	S. by W.	13	31st	24h.	22	31st	24 . 4
6. SCOTLAND, W.																	
Eskdalemuir	850	50	22	—	—	31, 1	20	44	51	53	0	SW.	14	31st	19h.	22	31st	18 . 39
Paisley	188	81	52	—	—	—	—	39	99	30	0	SW. by S.	10	31st	22h.	21	1st	9 . 35
2. ENGLAND, N.E.																	
Alnwick Castle	340	70	17	—	—	—	—	8	87	73	0	NW. by N.	8	1st	20h.	17	1st	19 . 25
South Shields	72	61	12	—	—	2nd	1	70	69	37	0	W. by N.	11	2nd	7h.	20	2nd	13 . 58
Spurn Head	63	40	‡	—	—	1st	3	42	55	29	39	—	13	1st	20h.	21	1st	19 . 59
3. ENGLAND, E.													9	1st	12h.	14	1st	22 . 44
Gorleston	52	42	‡	—	—	—	—	31	86	51	0	--	11	1st	16h.	15	1st	17 . 8
Shoeburyness	103	90	‡	—	—	1st	1	22	120	11	14	SW. by S.						
4. MIDLAND COUNTIES.																		
Benson	270	84	‡	—	—	—	—	21	99	48	0	SSW.	10	1st	16h.	16	1st	15 . 53
5. ENGLAND, S.E.																		
Dover	271	40	‡	—	—	1st	2	43	43	80	0	—	11	1st	18h.	16	1st	14 . 15
Warlingham	642	33	‡	—	—	—	—	43	106	26	23	—	8	1st	16h.	13	1st	16 . 35
Brighton	261	53	6	—	—	—	—	22	106	31	9	—	8	1st	21h.	13	1st	21 . 3
Kew Observatory ..	82	65	6 ‡ / 22 †	—	—	—	—	15	80	73	0	SW.	8	1st	17h.	15	1st	16 . 10
South Kensington ..	123	92	30	—	—	—	—	—	81	85	2	SW. by S.	5	1st	16h.	10	1st	—
7. ENGLAND, N.W.																		
Carnforth	246	56	23	—	—	—	—	29	77	62	0	W. by S.	8	1st	19h.	16	1st	16 . 30
Southport	80	62	48	—	—	31 to 3	44	8	36	6	0	W. by N.	17	1st	18h.	24	1st	17 . 29
Holyhead*	60	40	‡	—	—	31, 1, 3	31	57	74	6	0	W.	13	1st	16h.	19	31st	23 . 23
8. ENGLAND, S.W.																		
Pendennis Castle§ ..	256	65	24	—	—	1st	10	65	81	12	0	SW.	16	1st	11h.	26	1st	8 . 24
Plymouth	185	88	2	—	—	—	—	40	102	26	0	—	9	1st	14h.	14	1st	16 . 25
Lyme Regis	556	61	‡	—	—	—	—	33	84	51	0	—	9	1st	16h.	13	1st	9 . 12
10. IRELAND, S.																		
Quilty	100	40	‡	—	—	31 to 2	28	70	54	8	8	—	12	1st	18h.	17	1st	17 . 3
Weaver Pt.	160	30	‡	—	—	31, 1	7	62	99	0	0	—	12	1st	2h.	18	1st	3 . 28
11. ENGLISH CHANNEL.																		
Scilly*	150	32 / 19	‡	—	—	—	—	61	71	34	2	NNW.	10	3rd	2h.	14	3rd	1 . 26

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

** Above tops of trees.

‡ Standard mounting.

§ Direction from the Robinson Anemometer at Falmouth Observatory.

† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

TWENTY-SECOND WEEK—May 28th to June 3rd, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
			Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	64	37	85·7	78·8	82·1	− 1·0	44	− 16	0	− 2	6	+ 2	1·43	36	+ 22	4·6	−1·0	26	1011
Eastern.																			
1. SCOTLAND, EAST ...	64	30	87·4	78·9	82·9	− 0·8	55	− 12	0	− 2	6	+ 2	0·98	25	+ 13	6·2	0·0	37	1012
2. ENGLAND, N.E.	71	36	89·3	79·9	84·3	0·0	73	0	0	0	4	+ 1	0·30	8	− 3	6·4	+0·1	39	1014
3. ENGLAND, EAST ...	72	38	90·3	80·4	85·1	− 0·4	82	− 6	0	0	2	0	0·09	2	− 10	7·8	+0·8	49	1016
4. MIDLAND COUNTIES ...	72	37	90·3	79·8	84·7	− 0·7	78	− 10	0	− 1	2	− 1	0·15	4	− 9	6·5	+0·3	40	1016
5. ENGLAND, S.E.	71	34	90·5	80·3	85·1	− 1·0	83	− 12	0	0	1	− 1	0·06	1	− 11	8·6	+1·6	54	1017
Western.																			
6. SCOTLAND, WEST ...	65	35	87·7	79·6	83·3	− 1·2	60	− 16	0	− 1	5	+ 2	1·29	33	+ 18	8·8	+2·1	53	1013
7. ENGLAND, N.W.	67	36	87·8	80·6	83·9	− 1·2	68	− 14	0	0	4	+ 1	0·62	16	+ 3	7·8	+1·0	48	1016
8. ENGLAND, S.W.	70	33	88·9	80·5	84·4	− 1·2	74	− 15	0	0	2	− 1	0·32	8	− 4	8·5	+1·6	53	1018
9. IRELAND, NORTH ...	62	33	86·7	79·3	82·8	− 1·9	54	− 23	0	0	6	+ 3	1·34	34	+ 20	5·5	−0·8	33	1015
10. IRELAND, SOUTH ...	65	38	88·1	80·2	83·9	− 1·5	67	− 20	0	0	6	+ 3	0·70	18	+ 3	6·4	−0·2	40	1018
11. ENGLISH CHANNEL ...	66	44	89·3	82·5	85·7	− 0·4	90	− 5	0	0	2	− 1	0·05	1	− 12	10·7	+2·7	68	1020

THE SEASON (**Spring**).—Aggregates, &c., for the Period of 14 Weeks, February 27th to June 3rd, 1916.

0. SCOTLAND, NORTH ...	76	20	81·9	75·9	78·8	− 0·4	317	− 77	276	+ 15	68	+ 5	10·82	273	− 1	3·6	−0·7	25	1009
Eastern.																			
1. SCOTLAND, EAST ...	77	18	82·3	75·3	78·7	− 0·7	371	− 99	339	+ 56	65	+12	10·34	263	+ 91	3·9	−0·8	28	1010
2. ENGLAND, N.E.	81	20	83·7	76·7	80·0	0·0	503	+ 21	227	+ 20	59	+11	8·18	207	+ 68	4·2	−0·9	31	1010
3. ENGLAND, EAST ...	83	24	84·9	77·2	80·9	+ 0·2	615	+ 1	201	− 18	52	+ 6	7·34	185	+ 50	4·8	−0·5	36	1010
4. MIDLAND COUNTIES ...	83	21	84·8	76·4	80·4	− 0·3	588	− 41	246	+ 13	54	+ 9	8·42	215	+ 65	4·1	−0·7	31	1010
5. ENGLAND, S.E.	80	18	85·4	77·6	81·3	− 0·1	673	+ 9	175	+ 24	51	+ 8	7·70	194	+ 52	5·1	−0·2	38	1010
Western.																			
6. SCOTLAND, WEST ...	77	17	83·1	76·5	79·7	− 0·6	444	− 68	228	+ 35	59	+ 6	10·67	273	+ 25	4·5	−0·4	33	1010
7. ENGLAND, N.W.	79	8	83·7	77·1	80·2	− 0·4	508	− 33	203	+ 39	55	+ 7	8·62	221	+ 40	4·4	−0·5	32	1010
8. ENGLAND, S.W.	79	17	84·3	77·4	80·7	− 0·6	585	− 46	193	+ 67	54	+ 7	8·75	224	+ 25	5·1	−0·2	38	1010
9. IRELAND, NORTH ...	76	18	83·2	76·6	79·7	− 1·0	437	−113	212	+ 59	67	+10	11·27	288	+ 82	4·0	−0·7	30	1010
10. IRELAND, SOUTH ...	77	20	84·2	77·4	80·6	− 0·9	552	−102	165	+ 52	68	+16	9·91	250	+ 29	4·7	−0·5	34	1012
11. ENGLISH CHANNEL ...	79	30	85·1	79·4	82·1	− 0·3	701	− 22	64	+ 25	54	+ 4	7·49	188	+ 20	5·9	−0·4	44	1011

THE YEAR.—Aggregates, &c., for the Period of 22 Weeks, January 2nd to June 3rd, 1916.

0. SCOTLAND, NORTH ...	76	20	81·2	75·6	78·3	+ 0·1	419	− 29	454	−101	115	+11	26·30	666	+137	2·8	−0·4	24	1008
Eastern.																			
1. SCOTLAND, EAST ...	77	7	81·5	75·0	78·2	0·0	467	− 64	583	− 36	101	+17	16·62	424	+139	3·3	−0·4	28	1009
2. ENGLAND, N.E.	81	20	82·8	76·3	79·5	+ 0·7	663	+111	379	− 96	87	+10	11·20	285	+ 68	3·5	−0·4	29	1010
3. ENGLAND EAST ...	83	24	83·6	76·7	80·0	+ 0·9	784	+ 93	353	−168	85	+10	11·86	299	+ 88	3·8	−0·3	32	1012
4. MIDLAND COUNTIES ...	83	21	83·6	76·1	79·7	+ 0·5	760	+ 41	405	−128	86	+12	12·82	327	+ 81	3·3	−0·4	28	1012
5. ENGLAND, S.E.	80	15	84·1	77·2	80·6	+ 0·7	873	+106	294	− 87	87	+16	12·84	325	+ 82	4·0	−0·1	34	1013
Western.																			
6. SCOTLAND, WEST ...	77	17	82·3	76·3	79·2	+ 0·1	572	− 20	365	− 60	104	+15	19·53	498	+ 46	3·5	−0·2	30	1010
7. ENGLAND N.W.	79	8	82·9	77·0	79·8	+ 0·4	675	+ 51	310	− 76	94	+13	15·06	384	+ 73	3·4	−0·3	29	1011
8. ENGLAND, S.W.	79	17	83·4	77·4	80·3	+ 0·1	779	+ 14	279	− 22	95	+15	16·76	430	+ 71	3·9	−0·2	33	1013
9. IRELAND NORTH ...	76	18	82·7	76·4	79·5	− 0·1	609	− 51	334	− 11	111	+16	17·71	452	+ 95	3·3	−0·3	28	1010
10. IRELAND, SOUTH ...	77	20	83·6	77·3	80·4	− 0·1	773	− 46	244	− 15	116	+30	17·10	432	+ 38	3·7	−0·3	31	1013
11. ENGLISH CHANNEL ...	79	30	84 2	79·3	81·7	+ 0·2	973	+ 54	85	− 24	97	+10	14·45	364	+ 61	4·5	−0·4	38	1014
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	m.m.	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics
South Kensington, S.W., June 8th, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 23. SUNDAY, JUNE 4TH, TO SATURDAY, JUNE 10TH, 1916. *Price 6d., Post free 7d.* *Annual Subscription Post Paid £1 10s. 0d.*

I.—THE TWENTY-THIRD WEEK OF 1916.

This was a period of very cold and unsettled conditions over practically the whole of the United Kingdom, rain and hail being of frequent occurrence, and thunderstorms were experienced every day, on some days over extensive regions. At night time temperature in some localities was occasionally up to or a little above the normal minimum, but generally the readings were low, and especially during the day time, nearly all the maximum values being considerably short of the usual level for the season, remarkably few mounting to 290° A. (62° F.), while there were many instances in the north below 283° A. (50° F.). On various nights thermometers exposed on the grass descended below the freezing point, to 270° A. (27° F.) and under in places, as low as 268½° A. (24° F.) at Raunds on the 4th. For the whole week the mean shade temperature results were below the average from 2° A. (3½° F.) in England North-East to 3½° A. (6° F.) in England South-East. Ireland, Scotland West and the English Channel had a moderate rainfall, but elsewhere it was heavy, more than treble the normal in Scotland East, and more than double in Scotland North, and England South-East and North West. Locally Nairn had nearly eight times the normal, and Gordon Castle 5½ times. Hailstorms were widespread, an exceptionally severe one visiting Dublin on the 9th. On the 6th fresh-fallen snow covered Ben Nevis down to 2,000 feet. The English Channel had a fair excess of bright sunshine, but most districts a deficiency, Scotland North and East showing a loss of more than four hours per day. During the 7th and 8th there was marked "visibility" in the south of England, from Scilly to London and Brighton, very striking as seen from the Isle of Wight across Spithead and the Solent. A Sun Pillar was observed at Oxford on the evening of the 8th. Off the west of Ireland the sea was slightly warmer than usual, elsewhere it was colder, by more than 2° A. (4° F.) off Wick.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		ENGLAND, E.		NORTH WALES.		ENGLAND, S.W.		IRELAND, S.	
	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.
		m/s		m/s		m/s		m/s		m/s
South	1	5·3	4	2·7	2	3·0	1	2·4	1	6·1
North	6	7·2	2	2·1	5	3·6	6	4·7	6	3·5
West	2	3·0	7	2·6	7	5·5	7	6·2	6	5·0
East	4	4·1	¼	3·8	0	—	0	—	¼	0·6
Calm	0	—	0	—	0	—	0	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Very deficient	Very deficient	Deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient
	Rainfall ...	Heavy	Very heavy	Heavy	Heavy	Heavy	Heavy	Moderate	Heavy	Heavy	Moderate	Moderate	Moderate
	Sunshine ...	Very scanty	Very scanty	Scanty	Moderate	Scanty	Moderate	Scanty	Scanty	Moderate	Scanty	Moderate	Moderate

II.—THE SUMMER SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SUMMER. 1 week from June 4th, 1916.	Warmth ...	0, 0, 1	0, 0, 1	0, 0, 1	0, 0, 1	0, 0, 1	0, 0, 1	0, 0, 1	0, 0, 1	0, 0, 1	0, 0, 1	0, 0, 1	0, 0, 1
	Rainfall ...	1, 0, 0	1, 0, 0	1, 0, 0	1, 0, 0	1, 0, 0	1, 0, 0	0, 1, 0	1, 0, 0	1, 0, 0	0, 1, 0	0, 1, 0	0, 1, 0
	Sunshine ...	0, 0, 1	0, 0, 1	0, 0, 1	0, 1, 0	0, 0, 1	0, 1, 0	0, 0, 1	0, 0, 1	0, 1, 0	0, 0, 1	0, 1, 0	0, 1, 0

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1° A. = increment of ⅝° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(8383—19.) Wt. 79a—736. 450. 6/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts	Lowest Reading.	Mean	Deviation from Average.	Mean.	Deviation from Average.	
0. SCOTLAND, N.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
a, Islands.. *p* Baltasound	*31*	—	—	—	—	—	—	—	—	—	—	—	—										*Baltasound.*
a Lerwick	54	54	9,10	38	5th	50·3	40·7	45·2	- 2·5	5	1·56	40	—	3·0	- 2·4	17	*	*	*	*	*	*	Deerness.
a Stornoway	51	54	9th	41	6th	50·7	43·4	46·8	- 3·4	5	0·92	23	+ 10	1·7	- 4·5	10	*	*	*	*	*	*	Stornoway
a Castlebay, Barra Isd.	*37*	*55*	*9th*	*41*	*6th*	*52·0*	*43·7*	*47·6*	*- 3·2*	*7*	*0·50*	*13*	—	*6·7*	—	*39*							*Castlebay.*
b, Mainland. *a* Wick	81	53	10th	41	6th	49·6	44·1	46·7	- 3·5	6	1·35	34	+ 23				*	*	*	*	*	*	
p Strathpeffer	200	56	4th	41	6th	52·4	43·6	47·7	- 4·1	5	0·90	23	+ 12	0·7	- 4·7	4	*	*	*	*	*	*	Strathpeffer.
p Glencarron	500	53	9th	39	6th	49·9	41·9	45·6	- 5·1	7	1·78	45	+ 20				*	*	*	*	*	*	
p Fort Augustus	68	56	4th	42	6th	52·4	44·6	48·2	- 3·7	7	1·54	39	+ 27	0·6	- 3·9	3	*	*	*	*	*	*	Fort Augustus.
p Fort William	171	59	8-10	42	6th	55·9	44·6	49·9	- 3·1	6	0·66	17	- 4				*	*	*	*	*	*	
1. SCOTLAND, E.														0·7	—	4	0	33	50·6	-3·4	49·1	-0·7	Crathes.
p Gordon Castle	101	56	4th	41	6th	51·3	43·6	47·2	- 5·1	7	2·61	66	+ 54	*0·6*	—	*3*	*	*	*	*	*	*	*Gordon Castle.*
a Nairn	82	56	4th	42	6, 7	51·4	43·4	47·1	- 5·3	7	3·07	78	+ 68	0·5	—	3	*	*	*	*	*	*	Nairn.
a Aberdeen	46	55	7, 10	41	6th	51·9	44·4	47·9	- 3·8	7	1·54	39	+ 28	1·3	- 4·9	7	*	*	*	*	48·3	-0·8	Aberdeen.
a Balmoral	930	54	4th	35	4th	49·6	39·6	44·3	- 5·9	7	1·16	29	+ 16	*	*	*	0	33	*	*	*	*	Balmoral.
p Crieff	432	58	4, 9, 10	39	6th	55·6	41·7	48·2	- 5·8	4	0·09	2	- 14	1·8	—	11	*	*	*	*	*	*	Balruddery.
a Leith	18	59	10th	42	6, 9	55·1	44·3	49·3	- 4·3	7	0·84	21	+ 11				*	*	*	*	*	*	
a West Linton	769	56	5, 10	37	6, 10	53·1	40·6	46·4	- 3·8	7	0·98	25	—	*2·6*	—	*15*	1	29	*	*	*	*	*West Linton.*
p Marchmont	498	59	8th	37	6th	54·7	40·7	47·2	- 4·3	6	0·34	9	- 4	3·0	- 3·0	18	0	34	*	*	*	*	Marchmont.
a Edinburgh	*441*	*58*	*10th*	*40*	*6th*	*53·9*	*44·0*	*48·6*	—	7	*0·97*	*25*	—	2·0	—	12	0	38	*	*	*	*	Edinburgh.
6. *a*, SCOTLAND, W.																							
a Poltalloch	132	59	7, 8	?	?	56·1	?	?	?	4	0·32	8	- 9				*	*	*	*	*	*	
p Glasgow Observatory	180	61	10th	43	6th	56·6	45·3	50·6	- 2·8	7	0·41	10	- 4	3·4	- 2·0	20	0	36	*	*	*	*	Glasgow.
p Rothesay	170	58	9, 10	41	6th	54·7	43·4	48·7	- 5·0	6	0·26	7	- 10	*3·6*	—	*21*	0	38	53·1	*	51·4	+0·1	*Rothesay.*
a Kilmarnock	90	61	9, 10	39	9th	58·7	43·1	50·4	- 3·4	6	0·58	15	—	*4·7*	—	*28*	*	*	52·7	*	50·2	*	*Kilmarnock.*
a Colmonell	170	60	9th	40	10th	56·4	43·6	49·6	- 4·3	5	0·43	11	- 3	*	*	*	0	38	*	*	*	*	
a Dumfries	160	59	5, 10	41	6th	56·4	43·7	49·6	- 5·1	7	0·57	15	+ 2	*3·0*	—	*18*	0	34	52·9	*	52·0	*	*Dumfries.*
Eskdalemuir	*799*	*58*	*10th*	*35*	*10th*	*53·9*	*39·7*	*46·3*	—	*7*	*1·00*	*25*	—	*2·9*	—	*17*	*	*	*	*	*	*	*Eskdalemuir.*
p Cally, Gatehouse	120	62	5th	37	6th	59·0	41·6	49·7	- 3·9	5	0·40	10	- 7	*	*	*	*	*	*	*	*	*	
b, I. OF MAN. *p* Douglas	277	58	9th	42	7th	53·6	41·9	49·0	- 4·3	4	0·54	14	- 1	6·4	- 0·9	38	0	40	*	*	*	*	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	59	10th	41	6, 9	55·4	43·1	48·8	- 3·2	6	0·86	22	+ 10	3·2	—	19	0	35	49·3	-0·2	49·6	-1·6	Cockle Park.
a Tynemouth	71	55	5, 8	42	6th	54·0	44·9	49·1	- 3·9	4	1·18	30	+ 19				*	*	*	*	*	*	Tynemouth
p Durham	336	58	8, 10	39	6th	55·9	42·4	48·7	- 4·4	6	0·91	23	+ 12	3·2	- 2·4	19	0	35	*	*	*	*	Durham.
a, North. *p* Rounton	249	60	5th	40	6th	55·7	42·7	48·8	- 3·2	6	0·98	25	+ 13	*	*	*	0	32	53·8	*	*	*	Rounton.
a West Witton	*605*	*60*	*10th*	*42*	*6, 7*	*56·4*	*43·1*	*49·3*	—	*6*	*0·84*	*21*	—	*	*	*	0	37	53·8	*	49·0	*	*West Witton.*
p Scarborough†	100	60	6, 7	42	7th	58·0	44·6	50·8	- 2·5	2	0·52	13	+ 2	4·3	—	26	*	*	*	*	51·6	*	Scarborough.
p York	56	61	5th	43	4, 7, 9	57·4	44·3	50·4	- 4·8	6	1·16	29	+ 17	3·4	- 2·2	20	*	*	53·5	-1·8	51·8	+0·6	York.
b, South. *a* Spurn Head	26	58	5-7	43	7th	56·7	45·1	50·5	- 3·5	4	0·75	19	+ 10	*3·5*	—	*21*	*	*	*	*	*	*	*Spurn Head.*
a Lincoln	58	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	Lincoln.
a Fulbeck	180	61	7, 8, 10	37	9th	59·3	41·4	49·7	- 5·5	5	0·37	10	- 1	6·5	—	40	0	33	56·1	-4·3	52·4	-0·8	Rauceby.
														7·3	—	44							Skegness.
3. ENGLAND, E.														6·5	—	40	*	*	*	*	*	*	
p Cromer	196	61	8th	40	7th	58·6	44·0	50·8	- 3·2	6	0·89	23	—										Cromer.
p Little Massingham	280	63	9th	39	4, 7	59·3	42·0	50·1	- 4·8	6	0·81	21	+ 9	6·1	- 0·5	37	0	37	*	*	*	*	Lit. Massingham.
a, North. *a* Yarmouth	13	63	8th	43	4, 8	59·9	45·7	52·3	- 1·9	5	0·75	19	+ 9	7·3	—	45	*	*	54·6	-7·1	53·3	-3·0	Yarmouth.
a Norwich	93	63	8th	42	4, 7	60·0	44·9	51·9	- 2·6	7	1·02	26	—	*6·8*	—	*41*	0	38	56·7	*	*	*	*Norwich.*
a Geldeston	37	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	Geldeston.
p Cambridge	41	62	9th	38	7th	59·1	43·1	50·5	- 5·6	6	0·77	20	+ 8	5·5	- 1·2	34	0	31	56·1	-2·9	54·3	-0·2	Cambridge.
a Clacton-on-Sea	54	62	9th	42	9th	59·7	45·1	51·9	- 2·8	6	0·87	22	—	6·9	—	42	0	39	56·0	-2·1	55·2	+0·2	Clacton.
b, South. *a* Rothamsted	424	60	10th	36	4th	57·0	41·9	48·9	- 6·0	6	1·02	26	+ 14	6·2	- 0·3	38	2	27	53·2	*	*	*	Rothamsted.
p Tottenham	51	65	9th	43	8th	60·1	46·1	52·6	- 3·7	5	1·37	35	—	6·6	—	41	0	40	*	*	55·0	-0·1	Tottenham.
4. MIDLAND COUNTIES.																							
a North. *a* Harrogate	479	58	5th	40	10th	54·4	42·4	48·0	- 4·9	5	1·17	30	+ 17	3·4	—	20	0	35	51·7	-1·1	51·2	+0·2	Harrogate.
p Buxton	*987*	*53*	*10th*	*38*	*7th*	*51·7*	*41·0*	*46·0*	*- 5·6*	*7*	*1·99*	*51*	*+ 33*	*4·1*	—	*25*	0	31	50·7	-4·6	49·2	0·0	*Buxton.*
b, East. *a* Bawtry	65	60	5th	38	9th	57·1	42·1	49·1	- 6·3	4	0·34	9	- 1	4·2	*	25	0	33	53·0	-1·8	50·6	+1·0	Sheffield.
a Nottingham	82	61	8th	39	4, 7, 9	58·1	42·4	49·7	- 5·6	4	0·63	16	+ 5	3·7	- 1·8	22	1	29	53·3	*	52·2	*	Worksop.
p Birmingham, Edgbsn.	535	58	6, 8	41	9th	56·3	43·7	49·6	- 5·3	6	0·82	21	+ 8	5·2	—	31	0	33	53·0	-4·6	52·4	-0·2	Nottingham.
a Raunds	203	67	8th	36	4th	61·7	40·9	50·6	- 4·7	6	0·54	14	—	*6·0*	—	*37*	4	24	57·4	*	51·9	*	*Raunds.*
p Oxford	208	61	8th	42	4, 7	58·7	44·3	51·0	- 5·0	5	0·74	19	+ 8	5·8	- 0·7	36	0	35	*	*	*	*	Oxford.
c, West. *a* Cheadle	646	58	8th	39	7th	55·7	42·3	48·5	- 5·1	6	1·14	29	+ 15	*	*	*	0	38	*	*	*	*	Cheadle.
p Shrewsbury	191	63	8th	40	7, 8	58·7	42·9	50·3	- 5·3	5	0·35	9	—	*	*	*	0	36	*	*	*	*	Shrewsbury.
a Hereford§	291	63	10th	35	9th	60·3	42·0	50·5	- 5·4	4	0·26	7	- 6	5·7	*	35	1	29	55·9	*	54·6	*	*Malvern.*§
a Bath	66	61	10th	40	9, 10	58·6	43·4	50·5	- 5·6	6	1·49	38	+ 25	4·3	—	*21*	*	*	56·2	-3·3	54·8	-0·4	Bath.
5. ENGLAND, S.E.														8·9	—	55	0	35	58·2	-2·7	55·9	+1·1	Worthing.
a Marlborough	424	58	7, 10	35	4th	56·3	39·3	47·2	- 7·0	5	1·23	31	+ 18	5·3	- 0·8	33	3	29	55·2	*	52·8	*	Marlborough.
a Margate	53	61	5th	42	8th	58·9	45 1	51·5	- 4·0	6	0·46	12	+ 2	6·1	- 0·3	38	0	37	58·4	+0·3	57·7	+3·6	Margate.
a Wisley, Surrey	150	63	9th	38	8th	59·7	42·9	50·7	- 6·1	6	0·76	19	—	6·3	—	39	2	28	55·2	-3·6	53·1	—1·3	Wisley.
p Salisbury (Wilton)	180	62	10th	35	8th	58·1	40·3	48·6	- 8·1	6	1·14	29	+ 16	*	*	*	0	32	56·9	*	*	*	Salisbury.
a Tunbridge Wells	354	61	9, 10	37	7–9	58·9	40·3	49·0	- 6·2	6	1·73	44	+ 32	6·2	- 0·6	39	4	27	55·5	-5·3	54·5	*	Tunbridge Wells.
a Dungeness	21	59	5, 9	40	9th	57·6	44·3	50·5	- 4·8	6	1·31	33	+ 25	*	*	*	*	*	*	*	*	*	Littlestone.
p Hastings	178	60	9, 10	41	8th	58·3	44·7	51·0	- 4·8	6	1·27	32	+ 22	7·8	+ 0·1	48	0	38	57·7	*	55·9	*	Hastings.
p Southampton	64	63	10th	39	8th	59·0	44·0	51·0	- 6·8	6	0·86	22	+ 11	6·4	- 0·8	40	1	29	*	*	*	*	Southampton.
a Ventnor	59	60	10th	44	8th	58·1	46·7	52·0	- 4·5	5	0·66	17	+ 7	8·3	+ 1·4	52	*	*	*	*	*	*	Ventnor.
LONDON. *p* Kew	18	61	8, 9	42	8th	58·8	45·3	51·6	- 4·9	6	1·12	28	+ 17	6·5	- 0·1	40	0	33	55·4	-3·0	54·0	+0·7	Kew.
a Westminster	*27*	*64*	*9th*	*41*	*8th*	*60·6*	*45·0*	*52·3*	*- 4·4*	*6*	*0·90*	*23*	*+ 12*	*6·3*	*+ 0·7*	*39*	0	36	*	*	*	*	*Westminster.*
a Greenwich	*155*	*66*	*9th*	*40*	*4, 7, 8*	*61·6*	*43·0*	*51·7*	*- 5·4*	*7*	*1·03*	*26*	*+ 15*	*6·4*	*0·0*	*40*	2	26	*	*	*	*	*Greenwich.*
a Hampstead	*450*	*61*	*9, 10*	*38*	*8th*	*57·7*	*41·8*	*49·2*	—	*6*	*1·57*	*40*	—	*6·3*	—	*39*	0	33	*	*	*	*	*Hampstead.*
a Camden Square	*110*	*66*	*8, 9*	*41*	*8th*	*62·4*	*45·1*	*53·2*	—	*7*	*1·38*	*33*	—	*6·1*	—	*38*	0	39	*	*	*	*	*Camden Square.*
7. *a*, ENGLAND, N.W.														5·8	—	35	*	*	*	*	*	*	Hoylake.
a Aspatria (Mealsgate)	487	59	10th	41	6th	53·6	43·1	48·0	- 5·3	7	1·45	37	+ 23	3·2	—	19	0	39	50·9	*	49·9	*	Aspatria.
p Newton Rigg	559	58	9, 10	40	10th	55·3	42·4	48·4	- 4·4	6	0·84	21	+ 8	3·5	- 3·3	21	0	35	53·6	-2·7	50·1	-0·6	Newton Rigg.
p Stonyhurst	375	57	10th	41	7th	53·3	44·3	48·5	- 5·7	7	1·73	44	+ 27	2·4	- 4·1	14	0	37	*	*	*	*	Stonyhurst.
p Blackpool	66	59	9, 10	46	7th	55·9	47·3	51·3	- 3·2	5	0·71	18	+ 6	4·8	- 1·8	29	0	41	57·0	*	52·1	*	Blackpool.
a Southport	*37*	*57*	*9th*	*46*	*4, 7*	*54·9*	*46·9*	*50·6*	*- 3·9*	*5*	*1·04*	*26*	*+ 14*	*4·9*	*- 2·2*	*30*	0	39	56·9	-3·0	55·2	-0·3	*Southport.*
a Liverpool (Eidston)	188	56	9, 10	45	5, 7	54·3	46·0	49·9	- 4·6	3	1·14	29	+ 17	*5·7*	—	*34*	*	*	*	*	*	*	*Liverpool.*
a Hawarden Bridge	22	59	5, 9	45	7th	57·3	49·0	52·9	- 2·8	4	0·34	9	- 2	*2·2*	—	*13*	0	38	53·5	-3·5	54·2	+1·6	*Manchester (City)*
p Manchester (Whit. Pk.)	125	57	4, 10	42	7th	54·0	45·1	49·2	- 6·6	7	2·05	52	+ 40	*2·6*	- 2·7	*16*	*	*	*	*	*	*	" (*Whit. Park*)
b, NORTH WALES.																							
p Llandudno	71	55	4–8, 9	44	7th	54·1	46·7	50·1	- 4·9	4	0·93	24	+ 13	5·3	- 1·4	32	*	*	*	*	*	*	Llandudno.
a Holyhead	15	58	9th	45	7th	55·9	47·1	51·2	- 2·8	2	0·59	15	+ 3	7·5	—	*45*	*	*	*	*	*	*	*Holyhead.*
p Bettws-y-Coed	148	60	9th	39	7th	56·4	43·3	49·4	- 5·0	7	0·78	20	—	3·8	—	23	*	*	50·3	-4·9	49·9	-0·9	Bettws-y-Coed.
														6·2	—	38							Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date,	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average	
	Ft.	°F		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														6·2	—	38	*	*	*	*	*	*	Aberystwyth.
a Llangammarch Wells	550	57	8–10	36	9th	55·8	41·9	48·4	− 5·3	6	1·08	27	—	4·8	*	29	0	31	52·6	−2·8	50·5	0·0	Llangammarch.
a Pembroke	149	57	8th	47	4, 6–9	53·9	47·7	50·6	− 3·4	2	0·43	11	− 0	8·5	+ 1·1	52	*	*	*	*	*	*	Pembroke.
p Cardiff	202	60	10th	40	9th	56·7	44·4	50·1	− 6·6	6	1·73	44	+ 30	*6·7*	—	*42*	0	33	55·1	−4·5	53·2	−0·5	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	60	10th	41	9th	57·7	46·3	51·6	− 5·1	5	1·38	35	+ 22	*6·0*	—	*37*	0	39	*	*	*	*	*Clifton.*
a Shaftesbury	722	60	10th	38	8th	55·7	40·9	47·8	− 5·6	6	0·96	24	+ 11	*	*	*	*	*	54·5	*	53·5	*	Shaftesbury.
a Arlington	613	59	10th	38	9th	55·9	41·9	48·4	− 5·2	6	1·26	32	+ 15	*	*	*	*	*	*	*	*	*	Arlington.
a Newquay	*190*	*58*	*4th*	*39*	*8th*	*55·6*	*45·9*	*50·4*	*− 4·8*	7	*0·85*	*22*	*+ 13*	8·3	+ 0·9	52	*	*	56·7	*	53·8	*	Newquay.
a Cullompton	202	64	10th	35	9th	58·6	41·0	49·2	− 6·6	6	1·20	31	+ 19	6·1	− 0·6	38	0	32	55·8	*	*	*	Cullompton.
a Portland Bill	19	58	10th	47	9th	55·6	49·1	52·1	− 3·1	3	0·38	10	—	*8·6*	—	*54*	*	*	*	*	*	*	*Weymouth.*
p Plymouth	116	60	8, 10	37	8th	57·6	44·4	50·5	− 6·2	6	0·56	14	+ 2	6·7	− 0·5	42	*	*	56·4	−3·8	54·7	*	Plymouth.
a Falmouth	167	59	10th	40	8th	57·3	44·7	50·6	− 4·8	7	0·61	16	+ 3	9·4	+ 1·7	59	0	32	58·3	*	55·9	*	Falmouth.
9. IRELAND, N.																							
a Malin Head	208	53	4, 9	43	8th	51·6	44·7	47·9	− 4·6	5	0·28	7	− 5	*7·4*	—	*44*	*	*	*	*	*	*	*Malin Head.*
a, West .. *a* Blacksod Point ..	?	54	10th	41	8th	52·4	43·4	47·6	− 6·1	6	0·35	9	− 6	*	*	*	*	*	*	*	*	*	
p Markree Castle ..	122	57	9, 10	40	7, 8	55·1	42·6	48·4	− 4·6	5	0·88	22	+ 6	6·2	+ 0·4	37	0	33	53·7	*	51·0	*	Markree Castle.
a Birr Castle	175	58	5, 9, 10	35	8th	56·1	41·3	48·2	− 6·2	7	0·72	18	+ 5	*5·8*	*+ 0·1*	*35*	*	*	*	*	*	*	*Birr Castle.*
b, East .. *p* Armagh	196	60	10th	38	8th	57·0	41·6	48·8	− 4·6	6	0·59	15	+ 1	4·0	− 1·8	24	0	35	53·7	−3·5	51·4	−1·3	Armagh.
a Donaghadee	101	56	4th	43	7th	53·1	44·9	48·7	− 5·0	4	0·31	8	− 5	*	*	*	*	*	*	*	*	*	
														*	*	*	0	34	55·1	−2·0	53·1	−0·2	Trinity Coll.
10. IRELAND, S.														5·9	− 0·7	36	1	30	*	*	*	*	Phœnix Park.
p Dublin, City	47	59	10th	40	7, 8	56·4	45·0	50·3	− 5·7	6	0·74	19	+ 8	*	*	*	0	36	*	*	*	*	Dublin City.
a, East .. *a* Kilkenny	212	62	10th	37	7th	57·7	42·7	49·7	− 5·0	7	0·68	17	+ 4	*	*	*	*	*	*	*	*	*	
a Waterford	20	62	4th	40	7th	57·7	45·5	51·2	− 4·2	6	0·38	10	− 5	*	*	*	*	*	*	*	*	*	
a Seskin, Carrick-on-Suir	*541*	*58*	*8–10*	37	*7th*	*57·3*	*41·7*	*49·0*	—	7	*0·44*	*11*	—	*6·0*	—	*37*	0	35	*	*	*	*	*Seskin.*
a Birr Castle	175	58	5, 9, 10	35	8th	56·1	41·3	48·2	− 6·2	7	0·72	18	+ 5	5·8	+ 0·1	35	*	*	*	*	*	*	Birr Castle.
a Foynes	50	60	10th	40	7th	56·9	44·3	50·2	− 5·1	4	0·13	3	− 11	*	*	*	*	*	*	*	*	*	
b, West .. *a* Cahir	199	59	8, 10	40	7th	57·9	46·3	51·7	− 3·2	7	0·94	24	—	*	*	*	*	*	*	*	*	*	
a Killarney	174	59	6, 10	42	7th	57·7	44·9	50·9	− 3·8	7	1·14	29	+ 12	*	*	*	*	*	*	*	*	*	
a Valencia	30	56	5, 10	43	8th	54·4	46·3	50·1	− 5·0	6	0·22	6	− 13	7·2	+ 0·7	44	*	*	*	*	*	*	Valencia.
a Roche's Point	32	58	4, 5, 9	42	7th	57·3	45·6	51·0	− 4·1	5	0·22	6	− 10	8·0	—	50	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	59	10th	46	7–9	57·1	47·1	51·8	− 3·9	5	0·35	9	0	9·6	+ 1·6	60	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	60	10th	41	9th	57·6	46·6	51·7	− 5·4	6	0·37	9	− 3	8·7	+ 0·7	55	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	61	10th	43	8th	57·9	46·7	51·9	− 4·5	3	0·65	17	+ 4	9·1	+ 0·7	57	0	36	58·4	−1·6	57·2	+1·5	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, June 10th, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Above Ground.	Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Gales, force 8 or more. Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	High Winds, forces 6 and 7. Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.	Date and Hour, G.M.T.	Highest Gust with Date and Time, G.M.T.
1. SCOTLAND, E.	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.	m/s. d. h. m.
Dyce	305	75	‡15**	—	—	—	—	26	121	21	0	—	7 6th 8h.	29 6th 7 . 56
Aberdeen*	153	105 {57 52} †	—	—	—	5, 6	7	81	70	10	0	W. by N.	13 6th 9h.	21 6th 8 . 27
Edinburgh	485	39	31	—	—	—	—	77	71	14	6	NW. by N.	11 5th 15h.	15 5th 15 . 20
6. SCOTLAND, W.														
Eskdalemuir	850	50	22	—	—	4, 6	7	50	78	33	0	S. by W.	13 4th 11h.	18 6th 12 . 59
Paisley	188	81	52	—	—	—	—	31	108	29	0	NW.	8 6th 17h.	16 6th 17 . 23
2. ENGLAND, N.E.														
Alnwick Castle	340	70	17	—	—	—	—	—	—	—	—	—	— —	— — —
South Shields	72	61	12	—	—	—	—	55	97	16	0	W. by N.	11 6th 13h.	17 6th 15 . 50
Spurn Head	66	40	‡	Record defective.										
3. ENGLAND, E.														
Gorleston	52	42	‡	—	—	4th	11	49	99	9	0	—	14 4th 16h.	19 4th 16 . 25
Shoeburyness	103	90	‡	—	—	4, 5	15	38	109	6	0	SW. by S.	16 4th 18h.	22 5th 13 . 48
4. MIDLAND COUNTIES.														
Benson	270	84	‡	—	—	4th	3	39	90	36	0	S.	11 4th 12h.	18 5th 13 . 23
5. ENGLAND, S.E.														
Dover	271	40	‡	—	—	4, 5, 7	24	54	74	16	0	—	16 4th 23h.	25 5th 1 . 10
Warlingham	642	33	‡	—	—	—	—	27	140	0	1	—	11 4th 18h.	22 4th 18 . 34
Brighton	261	53	6	—	—	—	—	68	91	9	0	—	11 5th 13h.	19 5th 13 . 0
Kew Observatory ..	82	65 {6 22} †	—	—	—	—	—	32	107	29	0	SSW.	9 4th 17h.	18 5th 14 . 20
South Kensington ..	123	92	30	—	—	—	—	10	104	54	0	SSW.	7 4th 16h.	14 4th 13 . 19
7. ENGLAND, N.W.														
Carnforth	246	56	23	—	—	—	—	16	103	49	0	WSW.	9 6th 13h.	15 6th 13 . 26
Southport	80	62	48	—	—	4 to 8, 10	69	78	19	2	0	W. by N.	14 5th 17h.	18 6th 16 . 4
Holyhead*	60	40	‡	—	—	4 to 7	24	121	23	0	0	WNW.	13 5th 7h.	19 4th 7 . 0
8. ENGLAND, S.W.														
Pendennis Castle§ ..	256	65	24	—	—	4, 5	27	64	70	7	0	SW.	17 4th 15h.	22 4th 14 . 35
Plymouth	185	88	2	—	—	4th	7	47	70	44	0	—	12 4th 12h.	19 4th 15 . 37
Lyme Regis	556	61	‡	—	—	4th	2	51	90	21	4	—	12 4th 11h.	18 4th 10 . 35
10. IRELAND, S.														
Quilty	100	40	‡	—	—	4, 5	24	116	24	4	0	—	14 5th 8h.	19 4th 23 . 0
Weaver Pt.	160	30	‡	—	—	4, 5	4	76	86	2	0	—	12 4th 5h.	19 5th 10 . 55
11. ENGLISH CHANNEL.														
Scilly*	150	{32 19}	‡	—	—	4 to 6	30	90	46	0	2	WNW.	14 5th 5h.	21 5th 1 . 40

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.
† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

TWENTY-THIRD WEEK—June 4th to June 10th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
			Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	59	38	83·9	79·3	81·4	− 2·3	36	− 31	0	− 1	6	+ 3	1·24	32	+ 18	1·5	−4·2	9	1003
Eastern.																			
1. SCOTLAND, EAST ...	59	35	84·6	78·7	81·4	− 3·0	36	− 38	0	− 1	7	+ 5	1·33	34	+ 23	1·6	−4·6	9	1001
2. ENGLAND, N.E.	61	37	86·7	79·4	82·8	− 2·1	53	− 27	0	0	5	+ 2	0·84	21	+ 10	4·7	−1·6	28	1003
3. ENGLAND, EAST ...	65	36	88·1	79·7	83·6	− 2·4	64	− 30	0	0	6	+ 3	0·94	24	+ 11	6·4	−0·4	40	1006
4. MIDLAND COUNTIES ...	67	35	87·4	78·9	82·9	− 3·2	55	− 40	0	0	5	+ 3	0·75	19	+ 7	4·5	−1·7	27	1006
5. ENGLAND, S.E.	63	35	87·7	79·3	83·2	− 3·4	58	− 44	0	0	6	+ 3	1·05	27	+ 14	6·9	0·0	43	1007
Western.																			
6. SCOTLAND, WEST ...	62	37	86·6	79·5	82·8	− 2·5	54	− 30	0	0	6	+ 3	0·44	11	− 4	4·9	−1·8	29	1002
7. ENGLAND, N.W.	60	39	85·8	80·4	82·9	− 2·8	55	− 34	0	0	5	+ 2	1·06	27	+ 16	4·4	−2·5	26	1005
8. ENGLAND, S.W.	64	35	86·6	79·8	82·9	− 3·3	55	− 42	0	0	5	+ 2	0·96	24	+ 11	7·1	+0·2	44	1008
9. IRELAND, NORTH ...	60	35	85·3	79·2	82·1	− 3·2	44	− 40	0	0	6	+ 3	0·52	13	− 1	5·1	−0·9	31	1006
10. IRELAND, SOUTH ...	62	35	86·8	80·1	83·2	− 2·9	59	− 36	0	0	6	+ 3	0·57	15	+ 1	6·7	+0·3	41	1008
11. ENGLISH CHANNEL ...	61	41	87·2	81·2	84·0	− 2·7	69	− 33	0	0	5	+ 2	0·46	12	+ 1	9·1	+1·2	57	1011

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 1 Week, June 4th to June 10th, 1916.

0. SCOTLAND, NORTH ...	59	38	83·9	79·3	81·4	− 2·3	36	− 31	0	− 1	6	+ 3	1·24	32	+ 18	1·5	−4·2	9	1003
Eastern.																			
1. SCOTLAND, EAST ...	59	35	84·6	78·7	81·4	− 3·0	36	− 38	0	− 1	7	+ 5	1·33	34	+ 23	1·6	−4·6	9	1001
2. ENGLAND, N.E.	61	37	86·7	79·4	82·8	− 2·1	53	− 27	0	0	5	+ 2	0·84	21	+ 10	4·7	−1·6	28	1003
3. ENGLAND, EAST ...	65	36	88·1	79·7	83·6	− 2·4	64	− 30	0	0	6	+ 3	0·94	24	+ 11	6·4	−0·4	40	1006
4. MIDLAND COUNTIES ...	67	35	87·4	78·9	82·9	− 3·2	55	− 40	0	0	5	+ 3	0·75	19	+ 7	4·5	−1·7	27	1006
5. ENGLAND, S.E.	63	35	87·7	79·3	83·2	− 3·4	58	− 44	0	0	6	+ 3	1·05	27	+ 14	6·9	0·0	43	1007
Western.																			
6. SCOTLAND, WEST ...	62	37	86·6	79·5	82·8	− 2·5	54	− 30	0	0	6	+ 3	0·44	11	− 4	4·9	−1·8	29	1002
7. ENGLAND, N.W.	60	39	85·8	80·4	82·9	− 2·8	55	− 34	0	0	5	+ 2	1·06	27	+ 16	4·4	−2·5	26	1005
8. ENGLAND, S.W.	64	35	86·6	79·8	82·9	− 3·3	55	− 42	0	0	5	+ 2	0·96	24	+ 11	7·1	+0·2	44	1008
9. IRELAND, NORTH ...	60	35	85·3	79·2	82·1	− 3·2	44	− 40	0	0	6	+ 3	0·52	13	− 1	5·1	−0·9	31	1006
10. IRELAND, SOUTH ...	62	35	86·8	80·1	83·2	− 2·9	59	− 36	0	0	6	+ 3	0·57	15	+ 1	6·7	+0·3	41	1008
11. ENGLISH CHANNEL ...	61	41	87·2	81·2	84·0	− 2·7	69	− 33	0	0	5	+ 2	0·46	12	+ 1	9·1	+1·2	57	1011

THE YEAR.—Aggregates, &c., for the Period of 23 Weeks, January 2nd to June 10th, 1916.

0. SCOTLAND, NORTH ...	76	20	81·3	75·7	78·5	+ 0·1	455	− 60	454	−102	121	+14	27·54	698	+155	2·8	−0·5	23	1007
Eastern.																			
1. SCOTLAND, EAST ...	77	7	81·7	75·1	78·3	− 0·1	503	−102	583	− 37	108	+22	17·95	458	+162	3·2	−0·6	27	1008
2. ENGLAND, N.E.	81	20	83·0	76·4	79·6	+ 0·5	716	+ 84	379	− 96	92	+12	12·04	306	+ 78	3·5	−0·5	29	1010
3. ENGLAND EAST ...	83	24	83·8	76·8	80·2	+ 0·8	848	+ 63	353	−168	91	+13	12·80	323	+ 99	3·9	−0·3	33	1012
4. MIDLAND COUNTIES ...	83	21	83·7	76·2	79·9	+ 0·4	815	+ 1	405	−128	91	+15	13·57	346	+ 88	3·4	−0·4	28	1011
5. ENGLAND, S.E.	80	15	84·3	77·3	80·7	+ 0·5	931	+ 62	294	− 87	93	+19	13·89	352	+ 96	4·2	0·0	35	1012
Western.																			
6. SCOTLAND, WEST ...	77	17	82·4	76·4	79·3	− 0·1	626	− 50	365	− 60	110	+18	19·97	509	+ 42	3·6	−0·2	30	1010
7. ENGLAND N.W.	79	8	83·0	77·1	80·0	+ 0·3	730	+ 17	310	− 76	99	+15	16·12	411	+ 89	3·4	−0·4	29	1011
8. ENGLAND, S.W.	79	17	83·5	77·5	80·4	0·0	834	− 28	279	− 22	100	+17	17·72	454	+ 82	4·0	−0·3	33	1013
9. IRELAND NORTH ...	76	18	82·8	76·6	79·6	− 0·3	653	− 91	334	− 11	117	+19	18·23	465	+ 94	3·4	−0·3	29	1010
10. IRELAND, SOUTH ...	77	20	83·8	77·4	80·5	− 0·3	832	− 82	244	− 15	122	+33	17·67	447	+ 39	3·8	−0·3	32	1013
11. ENGLISH CHANNEL ...	79	30	84 4	79·4	81·8	+ 0·1	1042	+ 21	85	− 24	102	+12	14·91	376	+ 62	4·7	−0·4	39	1014
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F.			inches.	mm.	m.m.	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics
South Kensington, S.W., June 15th, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 93

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 24. SUNDAY, JUNE 11TH, TO SATURDAY, JUNE 17TH, 1916. *Price 6d., Post free 7d. Annual Subscription Post Paid £1 10s. 0d.*

I.—THE TWENTY-FOURTH WEEK OF 1916.

The period opened with unsettled conditions and rain in many parts of England, rather heavy in the eastern counties, 24 mm. being registered at Little Massingham on the 11th, 19 mm. at Scarborough, and 17 mm. at Yarmouth and Little Massingham on the 12th. With this exception dry weather was general, numerous stations, especially in the north and west, being rainless throughout the week. The general results consequently show that in England East the rainfall was considerably in excess of the average, England North-East and South-East had a moderate amount, and all other districts little or none. Thunderstorms were experienced at a number of places in the southern counties of England and Wales, but the accompanying rainfall was not heavy. Temperature was everywhere below the normal summer level, the smallest deficiency, 1°·2 A. (2°·2 F.) being in Ireland South, while over the eastern half of England it was from 3° to 4° A. (5½° to 7° F.). A few afternoon maxima exceeded 294° A. (70° F.) on the 15th and 17th, 297° A. (75° F.) being reached at Killarney on the former date, but as a rule low readings prevailed. They were abnormally low on the 12th, when many records of 283° A. (50° F.) and under were registered, 281° A. (46° at Norwich). Generally the night minima were moderate, but in scattered localities shade values as low as 272° to 274° A. (30° to 34° F.) were recorded, frost occurring on the grass on several mornings, in many districts on the 17th, when 269½° A. (26° F.) was registered at Hampstead and Raunds. Bright sunshine was deficient over the eastern half of England and in the English Channel, in excess elsewhere, England East returning a loss of 2·8 hours per day, Ireland North an excess of 5·1 hours per day. The temperature of the sea surface water was 0°·7 A. (1°·2 F.) above the normal on the west coast of Ireland, under the normal elsewhere, by as much as 2½° A. (4°·4 F.) off Caithness.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		ENGLAND, E.		NORTH WALES.		ENGLAND, S.W.		IRELAND, S.	
	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.
		m/s		m/s		m/s		m/s		m/s
South	0	—	0	—	0	—	2	2·2	1	0·6
North	7	8·4	7	4·8	7	5·1	5	4·3	5	3·5
West	4	4·7	5	3·0	3	2·4	1	5·6	1	2·4
East	1	2·5	1	1·1	4	5·7	5	5·4	3	2·3
Calm	0	—	0	—	0	—	0	—	1	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with normal for the time of year ... Warmth ...	Deficient	Very deficient	Very deficient	Very deficient	Very deficient	Very deficient	Deficient	Deficient	Very deficient	Deficient	Deficient	Deficient
Rainfall ...	Very light	Very light	Moderate	Heavy	Light	Moderate	Nought	Very light	Light	Nought	Very light	Light
Sunshine ...	Moderate	Abundant	Scanty	Very scanty	Scanty	Scanty	Very abundant	Abundant	Moderate	Very abundant	Very abundant	Scanty

II.—THE SUMMER SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SUMMER. 2 weeks from June 4th, 1916.	Warmth ...	0, 0, 2	0, 0, 2	0, 0, 2	0, 0, 2	0, 0, 2	0, 0, 2	0, 0, 2	0, 0, 2	0, 0, 2	0, 0, 2	0, 0, 2	0, 0, 2
	Rainfall ...	1, 0, 1	1, 0, 1	1, 1, 0	2, 0, 0	1, 0, 1	1, 1, 0	0, 1, 1	1, 0, 1	1, 0, 1	0, 1, 1	0, 1, 1	0, 1, 1
	Sunshine ...	0, 1, 1	1, 0, 1	0, 0, 2	0, 1, 1	0, 0, 2	0, 1, 1	1, 0, 1	1, 0, 1	0, 2, 0	1, 0, 1	1, 1, 0	0, 1, 1

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1° A. = increment of ⅘° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(8436—19.) Wt. 79a—736. 450. 6/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts	Lowest Reading.	Mean.	Deviation from Average.	Mean.	Deviation from Average.	
0. SCOTLAND, N.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
p Baltasound	*31*	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	*Baltasound.*
a Lerwick	54	51	14, 16	43	12–14, 17	49·6	43·6	46·4	- 2·3	0	0·00	0	—	3·1	- 2·1	17	•	•	•	•	•	•	Deerness.
a Stornoway	51	58	14th	40	14th	54·1	44·6	49·0	- 2·5	2	0·02	1	- 12	6·7	+ 0·5	37	•	•	•	•	•	•	Stornoway.
a Castlebay, Barra Isd.	*37*	*58*	*14, 16*	*44*	*13th*	*54·7*	*45·7*	*49·9*	- 2·3	*1*	*0·01*	*0·2*	—	*10·5*	—	*60*	•	•	•	•	•	•	*Castlebay.*
a Wick	81	53	16th	40	14th	50·9	43·9	47·2	- 4·3	2	0·06	1	- 10	•	•	•	•	•	•	•	•	•	
p Strathpeffer	200	69	17th	36	14th	60·7	42·9	51·2	- 2·1	0	0·00	0	- 11	6·6	+ 1·2	37	•	•	•	•	•	•	Strathpeffer.
p Glencarron	500	65	16th	35	14th	58·7	40·4	48·9	- 3·1	0	0·00	0	- 24	•	•	•	•	•	•	•	•	•	
p Fort Augustus	68	62	14th	38	14th	57·4	43·9	50·2	- 2·9	0	0·00	0	- 12	6·8	+ 2·3	39	•	•	•	•	•	•	Fort Augustus.
p Fort William	171	73	17th	39	12, 14	63·9	42·3	52·4	- 1·9	0	0·00	0	- 21	•	•	•	•	•	•	•	•	•	
1. SCOTLAND, E.														5·5	—	32	0	31	50·8	-4·0	49·0	-2·0	Crathes.
p Gordon Castle	101	59	14, 17	39	14th	54·4	43·4	48·5	- 5·2	0	0·00	0	- 12	*3·0*	—	*17*	•	•	•	•	•	•	*Gordon Castle.*
a Nairn	82	63	17th	37	14th	56·1	43·0	49·1	- 4·5	0	0·00	0	- 10	4·3	- 1·9	24	•	•	•	•	•	•	Nairn.
a Aberdeen	46	60	14th	42	14th	54·9	44·6	49·4	- 3·3	2	0·13	3	- 8	4·5	—	26	•	•	•	•	47·9	-2·0	Aberdeen.
a Balmoral	930	66	17th	31	17th	56·7	38·1	46·8	- 4·7	0	0·00	0	- 12	•	•	•	1	28	•	•	•	•	Balmoral.
p Crieff	432	71	14, 17	37	14th	64·4	41·4	52·1	- 3·1	0	0·00	0	- 16	10·5	—	61	•	•	•	•	•	•	Balruddery.
a Leith	18	65	14th	40	12, 16	57·6	41·0	48·7	- 6·0	0	0·00	0	- 10	•	•	•	•	•	•	•	•	•	
a West Linton	769	68	17th	30	14th	58·9	38·0	47·7	- 4·2	0	0·00	0	—	*10·0*	—	*58*	3	25	•	•	•	•	*West Linton.*
p Marchmont	498	61	17th	40	17th	56·6	41·7	48·6	- 4·0	0	0·00	0	- 13	6·8	+ 0·7	40	0	33	•	•	•	•	Marchmont.
a Edinburgh	*441*	*64*	*14th*	*39*	*14th*	*56·6*	*42·3*	*49·0*	—	*0*	*0·00*	*0*	—	9·3	—	54	0	35	•	•	•	•	Edinburgh.
6. *a*, SCOTLAND, W.														•	•	•	•	•	•	•	•	•	
a Poltalloch	132	69	15th	37	14th	63·0	41·2	51·7	- 3·7	0	0·00	0	- 17	•	•	•	•	•	•	•	•	•	
p Glasgow Observatory	180	73	17th	40	14th	65·6	44·7	54·4	- 0·3	0	0·00	0	- 15	10·2	+ 4·8	60	2	30	•	•	•	•	Glasgow.
p Rothesay	170	—	—	—	—	—	—	—	—	—	—	—	—	*12·6*	—	*74*	•	•	•	•	•	•	*Rothesay.*
a Kilmarnock	90	70	17th	32	14th	66·3	40·6	52·6	- 2·3	0	0·00	0	—	*11·5*	—	*67*	•	•	54·7	•	50·6	•	*Kilmarnock.*
a Colmonell	170	65	15th	35	14th	61·9	42·0	51·3	- 3·6	0	0·00	0	- 14	•	•	•	1	30	•	•	•	•	
a Dumfries	160	74	17th	38	14th	63·4	43·1	52·5	- 3·8	0	0·00	0	- 13	*10·1*	—	*59*	1	30	54·1	•	52·2	•	*Dumfries.*
Eskdalemuir	*799*	*72*	*17th*	*34*	*17th*	*59·3*	*40·3*	*49·1*	—	*1*	*0·04*	*1*	—	*10·1*	—	*59*	•	•	•	•	•	•	*Eskdalemuir.*
p Cally, Gatehouse	120	74	17th	32	14th	65·9	39·1	51·6	- 3·2	0	0·00	0	- 17	•	•	•	•	•	•	•	•	•	
b, I. OF MAN. *p* Douglas	277	67	17th	42	14, 17	59·1	41·9	51·5	- 3·2	0	0·00	0	- 15	11·9	+ 4·6	70	0	36	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	58	14th	36	17th	53·7	42·9	47·9	- 5·6	2	0·04	1	- 10	4·2	—	25	0	33	49·4	-6·6	49·2	-3·0	Cockle Park.
a Tynemouth	71	55	14, 17	40	17th	51·0	44·4	47·5	- 5·9	2	0·08	2	- 10	•	•	•	•	•	•	•	•	•	Tynemouth.
p Durham	336	66	17th	33	17th	54·9	41·3	47·6	- 7·1	3	0·16	4	- 7	3·3	- 2·4	20	1	29	•	•	•	•	Durham.
a, North *p* Rounton	249	65	17th	32	17th	52·7	41·0	46·4	- 7·1	4	0·20	5	- 6	•	•	•	0	31	51·4	•	•	•	Rounton.
a West Witton	*605*	*70*	*17th*	*35*	*17th*	*57·1*	*41·9*	*49·0*	—	*2*	*0·13*	*3*	—	•	•	•	0	30	54·9	•	49·0	•	*West Witton.*
p Scarborough†	100	56	17th	40	17th	52·6	43·9	48·0	- 6·6	3	0·89	23	+ 12	2·5	—	15	•	•	•	•	52·0	•	Scarborough.
p York	56	68	17th	37	17th	55·6	43·9	49·3	- 7·2	2	0·10	3	- 9	4·9	- 0·9	29	•	•	52·6	-3·7	51·5	-0·8	York.
a Spurn Head	26	54	17th	42	12th	52·6	44·1	48·1	- 6·6	3	0·75	19	+ 10	*2·6*	—	*16*	•	•	•	•	•	•	*Spurn Head.*
b, South *a* Lincoln	58	65	17th	41	17th	56·4	43·6	49·6	- 7·9	2	0·33	8	- 3	•	•	•	•	•	52·4	-5·3	52·3	-0·6	Lincoln.
a Fulbeck	180	64	17th	35	17th	56·7	42·0	48·8	- 7·9	4	0·36	9	- 2	4·5	—	27	0	31	53·9	-7·0	52·1	-2·2	Rauceby.
														2·7	—	16	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																							
p Cromer	196	56	17th	43	12, 13, 17	52·9	44·3	48·3	- 7·1	4	0·42	11	—	1·9	—	11	•	•	•	•	•	•	Cromer.
p Little Massingham	280	55	11, 16, 17	40	17th	52·4	42·9	47·3	- 9·2	4	1·66	42	+ 29	1·9	- 4·7	11	0	39	•	•	•	•	Lit. Massingham.
a, North *a* Yarmouth	13	58	16th	43	11th	53·7	45·4	49·3	- 6·2	3	1·14	29	+ 19	2·5	—	15	•	•	53·7	-8·5	53·0	-4·5	Yarmouth.
a Norwich	93	58	16th	43	11–13	53·6	44·4	48·7	- 7·3	4	1·23	31	—	*2·1*	—	*13*	0	41	55·0	•	•	•	*Norwich.*
a Geldeston	37	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	Geldeston.
p Cambridge	41	60	16, 17	38	17th	56·1	43·9	49·6	- 8·0	4	0·49	12	0	4·5	- 2·2	27	0	31	54·6	-5·0	54·1	-1·4	Cambridge.
a Clacton-on-Sea	54	60	11th	41	17th	56·1	44·6	50·0	- 6·3	4	0·40	10	—	5·3	—	32	0	38	54·3	-4·3	54·7	-1·2	Clacton.
b, South *a* Rothamsted	424	62	17th	36	17th	55·6	42·4	48·5	- 7·9	3	0·46	12	0	5·0	- 1·4	31	1	28	52·2	•	•	•	Rothamsted.
p Tottenham	51	66	17th	40	17th	59·6	45·1	51·9	- 5·8	3	0·27	7	—	5·1	—	31	0	36	•	•	54·9	-1·4	Tottenham.
4. MIDLAND COUNTIES.																							
a North *a* Harrogate	479	70	17th	35	17th	55·0	41·1	47·6	- 6·8	3	0·11	3	- 11	4·7	—	28	0	31	51·0	-2·9	50·8	-1·2	Harrogate.
p Buxton	*987*	*68*	*17th*	*34*	*17th*	*55·9*	*41·1*	*48·0*	- 5·0	*2*	*0·07*	*2*	*- 16*	*5·9*	—	*36*	1	30	50·4	-5·4	49·1	-1·0	*Buxton.*
														4·6	•	28	0	32	51·0	-4·7	50·4	-0·3	Sheffield.
a Bawtry	65	70	17th	34	17th	57·1	42·1	49·1	- 7·7	2	0·17	4	- 6	5·1	- 0·4	31	1	29	52·2	•	51·6	•	Worksop.
a Nottingham	82	67	17th	36	17th	57·3	43·1	49·7	- 6·8	2	0·12	3	- 8	4·8	—	29	0	32	51·3	-7·0	51·7	-2·1	Nottingham.
b, East *p* Birmingham, Edgbsn.	535	67	17th	39	17th	58·3	43·9	50·6	- 5·8	1	0·31	8	- 5	4·2	—	26	1	29	48·9	-4·4	48·8	-0·8	Birmingham.
a Raunds	203	65	11th	37	17th	58·1	42·4	49·7	- 7·2	3	0·38	10	—	*4·5*	—	*27*	3	26	55·9	•	52·4	•	*Raunds.*
p Oxford	208	66	17th	37	17th	58·4	43·7	50·5	- 6·9	2	0·30	8	- 4	5·1	- 1·4	31	0	33	•	•	•	•	Oxford.
a Cheadle	646	68	17th	36	17th	57·4	42·4	49·4	- 5·6	2	0·12	3	- 12	•	•	•	0	37	•	•	•	•	Cheadle.
c, West *p* Shrewsbury	191	72	17th	34	17th	62·0	43·4	52·1	- 4·8	1	0·04	1	—	•	•	•	1	29	•	•	•	•	Shrewsbury.
a Hereford§	291	69	17th	37	17th	61·3	42·6	51·3	- 6·0	1	0·06	2	- 11	6·1	•	38	2	28	55·3	•	54·2	•	*Malvern.*§
a Bath	66	69	17th	40	16, 17	62·1	44·6	52·7	- 4·7	1	0·02	1	- 12	5·4	—	33	•	•	56·4	-3·8	54·7	-1·5	Bath.
5. ENGLAND, S.E.														6·8	—	42	0	39	57·2	-4·2	55·5	-0·5	Worthing.
a Marlborough	424	66	17th	38	17th	59·1	42·1	50·0	- 5·5	2	0·22	6	- 7	6·0	- 0·1	37	0	32	56·2	•	53·0	•	Marlborough.
a Margate	53	59	11th	45	13th	54·7	47·6	50·9	- 6·0	4	0·20	5	- 5	3·8	- 2·4	23	0	43	56·1	-2·3	56·9	+1·8	Margate.
a Wisley, Surrey	150	66	17th	37	17th	58·6	43·0	50·3	- 8·0	3	0·38	10	—	5·0	—	31	1	29	54·7	-4·9	52·9	-2·6	Wisley.
p Salisbury (Wilton)	180	70	17th	39	16th	61·1	43·1	51·5	- 6·7	1	0·23	6	- 7	•	•	•	0	34	57·6	•	•	•	Salisbury.
a Tunbridge Wells	354	61	11, 17	39	17th	57·3	43·1	49·7	- 6·9	3	0·50	13	0	4·8	- 1·9	29	0	31	55·0	-6·1	54·1	•	Tunbridge Wells.
a Dungeness	21	59	16th	45	11–13	56·1	48·1	50·8	- 5·9	3	0·43	11	+ 3	•	•	•	•	•	•	•	•	•	Littlestone.
p Hastings	178	60	11, 16, 17	42	17th	57·4	45·0	50·8	- 6·3	3	0·36	9	- 1	5·2	- 2·5	32	0	39	56·2	•	55·6	•	Hastings.
p Southampton	64	69	17th	43	16, 17	62·0	46·0	53·4	- 5·7	2	0·04	1	- 10	7·7	+ 0·6	47	0	35	•	•	•	•	Southampton.
a Ventnor	59	64	15th	45	16, 17	60·9	46·4	53·2	- 4·6	3	0·13	3	- 8	7·4	+ 0·8	46	•	•	•	•	•	•	Ventnor.
LONDON. *p* Kew	18	65	17th	41	17th	57·6	45·0	50·9	- 6·6	3	0·46	12	0	4·6	- 1·9	28	0	36	54·3	-4·8	53·6	-0·7	Kew.
a Westminster	*27*	*67*	*17th*	*43*	*11, 17*	*60·3*	*45·3*	*52·3*	- 5·9	*3*	*0·33*	*9*	*- 3*	*5·8*	+ *0·2*	*36*	0	39	•	•	•	•	*Westminster.*
a Greenwich	*155*	*64*	*17th*	*39*	*17th*	*58·6*	*44·1*	*50·9*	- 7·8	*3*	*0·31*	*8*	*- 4*	*4·7*	- *1·8*	*29*	1	28	•	•	•	•	*Greenwich.*
a Hampstead	*450*	*63*	*17th*	*38*	*17th*	*56·5*	*41·5*	*48·5*	—	*3*	*0·38*	*10*	—	*4·8*	—	*29*	1	26	•	•	•	•	*Hampstead.*
a Camden Square	*110*	*72*	*17th*	*40*	*17th*	*62·3*	*44·9*	*53·0*	—	*3*	*0·32*	*8*	—	*4·5*	—	*28*	0	40	•	•	•	•	*Camden Square.*
7. *a*, ENGLAND, N.W.														8·3	—	50	•	•	•	•	•	•	Hoylake.
a Aspatria (Mealsgate)	487	68	17th	39	16th	57·9	42·0	49·4	- 5·1	0	0·00	0	- 14	8·7	—	51	0	36	53·3	•	50·1	•	Aspatria.
p Newton Rigg	559	74	17th	37	16, 17	61·9	41·9	51·2	- 2·9	1	0·02	0·4	- 12	8·5	+ 1·6	50	0	33	55·5	-1·7	50·6	-1·2	Newton Rigg.
p Stonyhurst	275	68	17th	38	17th	60·1	44·1	51·5	- 3·9	0	0·00	0	- 17	8·0	+ 1·5	48	0	33	•	•	•	•	Stonyhurst.
p Blackpool	66	63	15th	39	16, 17	59·6	45·0	51·8	- 4·1	0	0·00	0	- 12	9·7	+ 3·1	58	1	25	57·4	•	52·6	•	Blackpool.
a Southport	*37*	*64*	*15th*	*38*	*16, 17*	*59·6*	*44·9*	*51·7*	- *4·2*	*0*	*0·00*	*0*	*- 12*	*9·6*	—	*57*	1	28	58·2	-2·5	55·4	-1·2	*Southport.*
a Liverpool (Eidston)	188	765	17th	42	16, 17	59·0	45·0	51·5	- 4·3	1	0·04	1	- 12	*8·1*	—	*49*	•	•	•	•	•	•	*Liverpool.*
a Hawarden Bridge	22	64	17th	44	16, 17	60·1	48·4	53·8	- 3·1	1	0·02	1	- 10	*6·6*	—	*40*	0	37	53·8	-3·9	54·0	+0·2	*Manchester (City).*
p Manchester (Whit. Pk.)	125	71	17th	41	17th	60·4	45·9	52·7	- 4·3	1	0·01	0·3	- 13	*5·7*	+ *0·4*	*34*	•	•	•	•	•	•	" (*Whit. Park*)
b, NORTH WALES.																							
p Llandudno	71	63	17th	40	16th	57·6	46·4	51·6	- 5·0	0	0·00	0	- 11	9·9	+ 3·1	60	•	•	•	•	•	•	Llandudno.
a Holyhead	15	61	17th	45	16th	57·4	47·4	52·1	- 3·0	0	0·00	0	- 12	*10·4*	—	*63*	•	•	•	•	•	•	*Holyhead.*
p Bettws-y-Coed	148	71	17th	37	16th	61·0	43·4	51·6	- 4·1	1	0·03	1	—	7·3	—	44	•	•	50·3	-5·3	50·0	-1·6	Bettws-y-Coed.
														8·5	—	52	•	•	•	•	•	•	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.		Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														8·3	—	51	*	*	*	*	*	*	Aberystwyth.
a Llangammarch Wells	550	70	17th	37	11, 16, 17	60·9	40·7	50·1	− 5·0	1	0·12	3	—	6·4	*	39	1	30	53·2	−2·4	50·5	−0·8	Llangammarch.
a Pembroke	149	65	17th	45	14, 17	58·6	47·0	52·4	− 2·8	0	0·00	0	− 11	9·0	+ 1·5	55	*	*	*	*	*	*	Pembroke.
p Cardiff	202	67	17th	40	17th	60·7	44·7	52·1	− 5·8	0	0·00	0	− 14	*7·2*	—	*44*	0	36	55·4	−4·7	53·0	−2·0	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	71	17th	42	17th	62·4	46·7	54·0	− 3·9	1	0·36	9	− 4	*6·8*	—	*42*	0	40	*	*	*	*	*Clifton.*
a Shaftesbury	722	66	17th	38	16th	58·9	43·4	50·6	− 4·8	1	0·30	8	− 6	*	*	*	*	*	54·9	*	53·4	*	Shaftesbury.
a Arlington	613	66	15, 17	42	14, 15, 17	60·6	43·6	51·5	− 3·1	0	0·00	0	− 18	*	*	*	*	*	*	*	*	*	Arlington.
a Newquay	*190*	*65*	*17th*	*39*	*15th*	*57·7*	*46·0*	*51·4*	*− 5·2*	*0*	*0·00*	*0*	*− 10*	9·6	+ 2·2	60	*	*	57·3	*	54·1	*	Newquay.
a Cullompton	202	71	15th	40	16th	64·4	44·9	54·0	− 3·2	0	0·00	0	− 12	6·9	+ 0·3	43	0	35	57·2	*	*	*	Cullompton.
a Portland Bill	19	61	13, 15	45	16th	58·6	48·1	53·0	− 3·2	0	0·00	0	—	*	*	*	*	*	*	*	*	*	*Weymouth.*
p Plymouth	116	64	15, 17	45	11, 14, 15	60·6	46·4	53·0	− 5·0	0	0·00	0	− 13	6·1	− 1·0	33	*	*	57·0	−3·4	54·2	*	Plymouth.
a Falmouth	167	68	15th	45	14, 15	60·1	48·3	53·8	− 2·9	0	0·00	0	− 14	7·2	− 0·6	45	0	35	59·0	*	55·9	*	Falmouth.
9. IRELAND, N.																							
a, West .. { *a* Malin Head	208	57	15, 16	46	11, 13, 14	54·4	46·9	50·4	− 3·2	1	0·01	0·2	− 12	*10·6*	—	*62*	*	*	*	*	*	*	*Malin Head.*
a Blacksod Point ..	‡	66	16th	46	11–14	57·7	46·6	51·8	− 3·0	1	0·01	0·2	− 15	*	*	*	*	*	*	*	*	*	*
p Markree Castle ..	122	69	15th	35	14, 15	63·6	39·4	50·7	− 3·6	0	0·00	0	− 17	12·4	+ 6·7	73	0	32	56·7	*	51·2	*	Markree Castle.
a Birr Castle	175	73	17th	39	14th	64·0	43·6	53·1	− 2·6	0	0·00	0	− 13	*11·6*	+ *6·0*	*70*	*	*	*	*	*	*	*Birr Castle.*
b, East .. { *p* Armagh	196	70	17th	36	14th	63·1	41·3	51·4	− 3·3	0	0·00	0	− 14	9·4	+ 3·7	56	0	32	55·6	−2·8	51·8	−1·7	Armagh.
a Donaghadee	101	60	17th	43	14th	56·0	46·3	50·8	− 3·9	0	0·00	0	− 13	*	*	*	*	*	*	*	*	*	*
10. IRELAND, S.														*	*	*	0	32	56·1	−1·9	53·2	−1·0	Trinity Coll.
a, East .. { *p* Dublin, City	47	69	17th	41	14th	60·1	46·4	52·8	− 4·6	0	0·00	0	− 11	10·5	+ 4·0	63	2	27	*	*	*	*	Phœnix Park.
a Kilkenny	212	72	17th	39	14th	64·0	43·0	52·8	− 3·2	0	0·00	0	− 14	*	*	*	*	38	*	*	*	*	Dublin City.
a Waterford	20	74	17th	43	12th	66·9	46·0	55·7	− 1·0	0	0·00	0	− 16	*	*	*	*	*	*	*	*	*	*
a Seskin, Carrick-on-Suir	*541*	*69*	*17th*	*41*	*14, 15*	*63·3*	*43·6*	*52·8*	—	*0*	*0·00*	*0*	—	*10·8*	—	*66*	1	30	*	*	*	*	*Seskin.*
b, West .. { *a* Birr Castle	175	73	17th	39	14th	64·0	43·6	53·1	− 2·6	0	0·00	0	− 13	11·6	+ 6·0	70	*	*	*	*	*	*	Birr Castle.
a Foynes	50	71	17th	46	17th	64·6	47·9	55·7	− 0·8	0	0·00	0	− 14	*	*	*	*	*	*	*	*	*	*
a Cahir	198	73	17th	38	14th	65·9	43·7	54·0	− 1·9	0	0·00	0	—	*	*	*	*	*	*	*	*	*	*
a Killarney	174	75	15th	44	14, 15	67·9	45·7	56·0	+ 0·2	1	0·04	1	− 16	*	*	*	*	*	*	*	*	*	*
a Valencia	30	71	17th	44	15th	62·7	47·9	54·8	− 1·4	0	0·00	0	− 19	11·4	+ 4·9	70	*	*	*	*	*	*	Valencia.
a Roche's Point ..	32	65	17th	45	14, 15	59·9	47·3	53·2	− 3·0	1	0·01	0·3	− 17	11·3	—	69	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	63	15th	48	15th	58·4	50·0	53·9	− 2·8	1	0·04	1	− 9	7·8	− 0·3	48	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	66	15th	40	15th	60·7	48·6	54·2	− 4·0	0	0·00	0	− 12	5·6	− 2·4	35	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	68	15th	44	15th	60·9	49·4	54·8	− 2·7	1	0·13	3	− 10	6·8	− 1·5	43	0	42	59·0	−1·8	57·1	+0·3	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, June 17th, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Above Ground.	Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Gales, force 8 or more. Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	High Winds, forces 6 and 7. Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.		Date and Hour, G.M.T.		Highest Gust with Date and Time, G.M.T.		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.			m/s.	d.	h. m.
1. SCOTLAND, E.																		
Dyce	305	75	‡15**	—	—	12th	2	76	83	7	0	—	11	12th	13h.	25	12th	10 . 0
Aberdeen*	153	105	37 / 52 †	—	—	12, 14	9	102	52	5	0	NW. by N.	13	12th	11h.	27	12th	13 . 35
Edinburgh	485	39	31	—	—	—	—	60	105	3	0	NNE.	11	13th	3h.	17	13th	4 . 56
6. SCOTLAND, W.																		
Eskdalemuir	850	50	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Paisley	188	81	52	—	—	—	—	12	119	37	0	NNE.	11	12th	18h.	19	12th	17 . 35
2. ENGLAND, N.E.																		
Alnwick Castle	340	70	17	—	—	12, 13, 15	19	76	46	8	19	N. by W.	13	12th	17h.	26	12th	18 . 29
South Shields	72	61	12	—	—	12, 13	25	91	37	15	0	N. by E.	16	12th	21h.	24	12th	14 . 2
Spurn Head	66	40	‡			11 to 13, 15	59	44	36	—	29	NE.	17	12th	18h.	22	12th	18 . 33
3. ENGLAND, E.																		
Gorleston	52	42	‡	—	—	13, 15	28	89	41	0	10	—	15	13th	9h.	22	13th	5 . 48
Shoeburyness	103	90	‡	—	—	—	—	88	80	0	0	E. by N.	10	16th	17h.	17	13th	9 . 43
4. MIDLAND COUNTIES.																		
Benson	270	84	‡	—	—	—	—	49	95	24	0	N.	10	13th	18h.	16	13th	18 . 15
5. ENGLAND, S.E.																		
Dover	271	40	‡	—	—	13, 14	10	111	46	1	0	—	12	13th	11h.	25	13th	10 . 1
Warlingham	642	33	‡	—	—	—	—	8	158	2	0	—	6	16th	15h.	14	13th	11 . 54
Brighton	281	53	6	—	—	—	—	27	126	9	6	—	8	13th	8h.	14	13th	13 . 28
Kew Observatory ..	82	65	6 / 22 †	—	—	—	—	19	130	19	0	N. by E.	8	13th	12h.	15	13th	11 . 58
South Kensington ..	123	92	30	—	—	—	—	—	113	38	17	E. by N.	5	16th	20h.	11	13th	10 . 30
7. ENGLAND, N.W.																		
Carnforth	246	56	23	—	—	—	—	10	88	70	0	NNW.	9	12th	19h.	16	12th	18 . 50
Southport	80	62	48	—	—	11 to 13	18	71	75	6	0	N. by E.	15	12th	20h.	21	12th	19 . 35
Holyhead*	60	40	‡	—	—	11 to 13, 16	38	98	32	0	0	NE. by N.	15	13th	4h.	19	13th	3 . 50
8. ENGLAND, S.W.																		
Pendennis Castle§ ..	256	65	24	—	—	16, 17	30	60	60	18	0	E. by S.	16	16th	15h.	21	16th	15 . 28
Plymouth	185	88	2	—	—	—	—	60	74	34	0	—	8	16th	23h.	17	16th	13 . 5
Lyme Regis	556	61	‡	—	—	—	—	29	88	51	0	—	10	13th	5h	15	13th	4 . 52
10. IRELAND, S.																		
Quilty	100	40	‡	—	—	12th	1	74	76	17	0	—	12	12th	12h.	19	12th	11 . 37
Weaver Pt.	160	30	‡	—	—	—	—	75	71	22	0	—	11	16th	16h.	16	16th	16 . 58
11. ENGLISH CHANNEL.																		
Scilly*	150	32 / 19	‡	—	—	16, 17	19	65	50	34	0	E. by S.	13	16th	15h.	20	16th	14 . 10

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.
‡ Standard mounting. ** Above tops of trees.
† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof.
§ Direction from the Robinson Anemometer at Falmouth Observatory.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

TWENTY-FOURTH WEEK—June 11th to June 17th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
			Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	73	35	86·6	79·2	82·7	− 1·5	52	− 21	0	− 1	1	− 3	0·01	0	− 16	5·8	+0·4	33	1023
Eastern.																			
1. SCOTLAND, EAST ...	71	30	87·2	78·2	82·4	− 2·5	51	− 30	2	+ 2	1	− 3	0·02	0	− 13	6·8	+0·9	39	1023
2. ENGLAND, N.E.	68	32	85·2	79·1	81·9	− 3·5	43	− 44	0	0	3	+ 1	0·32	8	− 2	3·7	−2·5	22	1020
3. ENGLAND, EAST ...	66	36	85·8	79·7	82·5	− 3·9	50	− 49	0	0	4	+ 1	0·76	19	+ 6	3·7	−2·8	23	1017
4. MIDLAND COUNTIES ...	72	34	87·8	79·1	83·2	− 3·2	58	− 41	0	0	2	− 1	0·16	4	− 8	4·8	−1·2	30	1020
5. ENGLAND, S.E.	70	37	87·7	80·1	83·7	− 3·3	64	− 42	0	0	3	0	0·30	8	− 4	5·7	−1·0	35	1018
Western.																			
6. SCOTLAND, WEST ...	74	32	90·6	78·7	84·2	− 1·6	71	− 20	0	0	0	− 3	0·00	0	− 16	11·1	+4·6	65	1022
7. ENGLAND, N.W.	74	37	88·3	80·2	83·9	− 2·3	68	− 28	0	0	1	− 2	0·01	0	− 12	8·8	+2·1	53	1021
8. ENGLAND, S.W.	71	37	88·9	80·4	84·4	− 2·2	74	− 28	0	0	1	− 2	0·08	2	− 12	7·6	+0·8	47	1020
9. IRELAND, NORTH ...	73	35	88·4	79·7	83·8	− 1·9	66	− 23	0	0	0	− 4	0·00	0	− 15	10·9	+5·1	65	1024
10. IRELAND, SOUTH ...	75	38	90·8	80·6	85·3	− 1·2	85	− 15	0	0	1	− 2	0·01	0	− 14	11·2	+4·7	68	1024
11. ENGLISH CHANNEL ...	68	40	88·6	82·6	85·4	− 1·7	86	− 21	0	0	1	− 3	0·06	1	− 9	6·7	−1·3	42	1020

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 2 Weeks, June 4th to June 17th, 1916.

0. SCOTLAND, NORTH ...	73	35	85·3	79·3	82·1	− 1·9	88	− 52	0	− 2	7	0	1·25	32	+ 2	3·7	−1·9	21	1013
Eastern.																			
1. SCOTLAND, EAST ...	71	30	85·9	78·5	81·9	− 2·8	87	− 68	2	+ 1	8	+ 2	1·35	34	+ 10	4·2	−1·8	24	1012
2. ENGLAND, N.E.	68	32	86·0	79·3	82·4	− 2·8	96	− 71	0	0	8	+ 3	1·12	28	+ 7	4·2	−2·0	25	1012
3. ENGLAND, EAST ...	66	36	87·0	79·7	83·1	− 3·1	114	− 79	0	0	10	+ 4	1·70	43	+ 17	5·1	−1·6	31	1012
4. MIDLAND COUNTIES ...	72	34	87·6	79·0	83·1	− 3·2	113	− 81	0	0	7	+ 2	0·91	23	− 1	4·7	−1·4	28	1013
5. ENGLAND, S.E.	70	35	87·7	79·7	83·5	− 3·3	122	− 86	0	0	9	+ 3	1·35	35	+ 10	6·3	−0·5	39	1013
Western.																			
6. SCOTLAND, WEST ...	74	32	88·6	79·1	83·5	− 2·1	125	− 50	0	0	6	0	0·44	11	− 20	8·0	+1·4	47	1012
7. ENGLAND, N.W.	74	37	87·1	80·3	83·4	− 2·6	123	− 62	0	0	6	0	1·07	27	+ 4	6·6	−0·2	40	1013
8. ENGLAND, S.W.	71	35	87·8	80·1	83·7	− 2·7	129	− 70	0	0	6	0	1·04	26	− 1	7·4	+0·5	46	1014
9. IRELAND, NORTH ...	73	35	86·9	79·5	83·0	− 2·5	110	− 63	0	0	6	− 1	0·52	13	− 16	8·0	+2·1	48	1015
10. IRELAND, SOUTH ...	75	35	88·8	80·4	84·3	− 2·0	144	− 51	0	0	7	+ 1	0·58	15	− 13	9·0	+2·5	55	1016
11. ENGLISH CHANNEL ...	68	40	87·9	81·9	84·7	− 2·2	155	− 54	0	0	6	− 1	0·52	13	− 8	7·9	−0·1	50	1016

THE YEAR.—Aggregates, &c., for the Period of 24 Weeks, January 2nd to June 17th, 1916.

0. SCOTLAND, NORTH ...	76	20	81·6	75·9	78·6	− 0·1	507	− 81	454	−103	122	+11	27·55	698	+139	2·9	−0·5	24	1008
Eastern.																			
1. SCOTLAND, EAST ...	77	7	81·9	75·2	78·5	− 0·2	554	−132	585	− 35	109	+19	17·97	458	+149	3·4	−0·5	28	1009
2. ENGLAND, N.E.	81	20	83·1	76·5	79·7	+ 0·4	759	+ 40	379	− 96	95	+13	12·32	313	+ 75	3·5	−0·6	29	1011
3. ENGLAND EAST ...	83	24	83·9	76·9	80·3	+ 0·6	898	+ 14	353	−168	95	+14	13·56	342	+105	3·9	−0·4	32	1012
4. MIDLAND COUNTIES ...	83	21	83·9	76 4	80·0	+ 0·3	873	− 40	405	−128	93	+14	13·73	350	+ 80	3·4	−0·5	28	1012
5. ENGLAND, S.E.	80	15	84·4	77·4	80·8	+ 0·3	995	+ 20	294	− 87	96	+19	14·19	360	+ 92	4·2	−0·1	35	1013
Western.																			
6. SCOTLAND, WEST ...	77	17	82·8	76 5	79·6	0·0	697	− 70	365	− 60	110	+15	19·97	509	+ 26	3·9	−0·1	32	1010
7. ENGLAND N.W.	79	8	83·2	77·2	80·1	+ 0·2	798	− 11	310	− 76	100	+13	16·13	411	+ 77	3·7	−0·3	30	1012
8. ENGLAND, S.W.	79	17	83·8	77·6	80·6	− 0·1	908	− 56	279	− 22	101	+15	17·80	456	+ 70	4·2	−0·2	34	1013
9. IRELAND NORTH ...	76	18	83·0	76·7	79·8	− 0·3	719	−114	334	− 11	117	+15	18·23	465	+ 79	3·7	−0·1	31	1011
10. IRELAND, SOUTH ...	77	20	84·1	77·5	80·7	− 0·3	917	− 97	244	− 15	123	+31	17·68	447	+ 25	4·1	−0·1	34	1013
11. ENGLISH CHANNEL ...	79	30	84 5	79·6	82·0	+ 0·1	1128	0	85	− 24	103	+ 9	14·97	377	+ 53	4·8	−0·3	39	1014
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	m.m.	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics
South Kensington, S.W., June 22nd, 1916.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 25. SUNDAY, JUNE 18TH, to SATURDAY, JUNE 24TH, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE TWENTY-FIFTH WEEK OF 1916.

The general character of the weather was cool and dull. During several days there was no rain, but some heavy falls in Southern Ireland on the 21st caused an excess in that district, while on the 24th some heavier falls in the north-east and north of Great Britain gave considerably more than the normal to Scotland East. Over the Kingdom generally the fall was below the normal. Thunderstorms occurred on the 23rd in a few places in the north and north-west of Britain, and on the 24th they were experienced at numerous stations in the north and east; at Leeds a thunderstorm yielded 14 mm. of rain in 20 minutes. Other heavy falls of rain were not directly associated with electrical disturbances. Among the most striking were 35 mm. at Nairn, 34 mm. at Aberdeen, 33 mm. at Gordon Castle, 27 mm. at Rounton and 24 mm. at Shrewsbury on the 24th. At Southport on the 23rd 9 mm. fell in 10 minutes. Temperatures continued below the normal in all districts, the general deviation being a little more than 1° A. (nearly 2° F.). As a general rule the maximum readings were below 294° A. (70° F.) but late in the week that value was reached or slightly exceeded except in England South-East, the English Channel, and Ireland North. The lowest of the minima mostly occurred on the 20th, when the thermometer descended to 272°·5 A. (30° F.) at Balmoral, and to 275° A. (36° F.) at Raunds and Marlborough. Frost was recorded on the grass in several localities, the lowest readings being 268°·5 A. (24° F.) at Gordon Castle, 269° A. (25° F.) at Raunds, 270° A. (27° F.) at Hampstead. Although the week was not generally rainy there was little sunshine for the time of year. In nearly all districts the record was scanty or very scanty. In the central, north-eastern, eastern, and south-eastern counties of England the mean daily deficiency was about 3 hours, and locally nearly 4 hours. The brightest district was Scotland West with a mean of 6 hours a day, and the dullest the Midland Counties, with 3·1 hours a day. The temperature of the sea surface water was below the average generally; as much as 2°·5 A. (4°·5 F.) at Wick. At Cleggan, however, it was slightly above it.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.*		ENGLAND, E.		NORTH WALES.		ENGLAND, S.W.		IRELAND, S.	
	Frequency (Max. 6.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.
		m/s		m/s		m/s		m/s		m/s
South	3	3·2	3	2·5	3	5·0	3	5·9	2	3·7
North	3	3·0	3	2·4	4	4·4	4	3·9	4	3·6
West	3	4·7	4	2·1	4	3·4	4	3·8	4	3·1
East	3	2·3	3	1·1	1	1·8	1	2·3	2	1·7
Calm	0	—	0	—	0	—	¼	—	¼	—

* Record for 18th June defective. Statistics given refer to six days, 19th to 24th.

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Moderate	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Moderate	Deficient	Moderate	Moderate	Deficient
	Rainfall ...	Moderate	Very heavy	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Heavy	Moderate
	Sunshine ...	Moderate	Scanty	Very scanty	Very scanty	Very scanty	Scanty	Moderate	Scanty	Scanty	Scanty	Scanty	Very scanty

II.—THE SUMMER SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SUMMER. 3 weeks from June 4th, 1916.	Warmth ...	0, 1, 2	0, 0, 3	0, 0, 3	0, 0, 3	0, 0, 3	0, 0, 3	0, 0, 3	0, 1, 2	0, 0, 3	0, 1, 2	0, 1, 2	0, 0, 3
	Rainfall ...	1, 1, 1	2, 0, 1	1, 2, 0	2, 1, 0	1, 1, 1	1, 2, 0	0, 2, 1	1, 1, 1	1, 1, 1	0, 2, 1	1, 1, 1	0, 2, 1
	Sunshine ...	0, 2, 1	1, 0, 2	0, 0, 3	0, 1, 2	0, 0, 3	0, 1, 2	1, 1, 1	1, 0, 2	0, 2, 1	1, 0, 2	1, 1, 1	0, 1, 2

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1° A. = increment of $\frac{9}{5}$° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(8508—19.) Wt. 79a—736. 450. 6/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.							Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.																							
p Baltasound	*31*	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	*Baltasound.*
a Islands .. *a* Lerwick	54	56	22nd	41	19th	53·0	45·1	48·8	- 0·8	7	0·45	12	—	5·4	+ 0·4	30	•	•	•	•	•	•	Deerness.
a Stornoway	51	64	23rd	42	19th	58·9	48·1	53·1	+ 0·7	3	0·52	13	- 1	5·4	- 0·7	30	•	•	•	•	•	•	Stornoway
a Castlebay, Barra Isd.	*37*	*61*	*24th*	*47*	*18, 19*	*55·9*	*49·0*	*52·2*	*- 0·6*	*3*	*0·73*	*19*	—	*4·8*	—	*37*	•	•	•	•	•	•	*Castlebay.*
a Wick	81	58	23rd	41	20th	56·6	45·7	49·4	- 2·8	5	0·71	18	+ 7	•	•	•	•	•	•	•	•	•	
b, Mainland. *p* Strathpeffer	200	68	18, 21, 23	43	20th	56·1	46·0	55·4	+ 1·2	2	0·86	22	+ 11	4·4	- 0·9	25	•	•	•	•	•	•	Strathpeffer.
p Glencarron	500	65	23rd	42	19, 20	58·6	46·1	51·9	- 1·1	3	0·98	25	0	•	•	•	•	•	•	•	•	•	
p Fort Augustus	68	68	23rd	41	19th	61·6	46·3	53·4	- 0·9	3	0·78	20	+ 8	2·8	- 1·6	16	•	•	•	•	•	•	Fort Augustus.
p Fort William	171	72	24th	42	19th	63·1	47·1	54·5	- 0·8	5	0·63	16	- 6	•	•	•	•	•	•	•	•	•	
1. SCOTLAND, E.																							
p Gordon Castle	101	72	23rd	38	20th	62·9	46·0	53·9	- 0·8	3	1·68	43	+ 31	3·8	—	22	1	21	53·4	-1·7	49·6	-2·4	Crathes.
a Nairn	82	69	23rd	40	20th	61·9	45·9	53·3	- 1·2	4	2·10	53	+ 43	*5·2*	—	*29*	•	•	•	•	•	•	*Gordon Castle.*
a Aberdeen	48	64	23rd	40	20th	59·1	47·1	52·7	- 1·1	4	1·50	38	+ 27	5·6	- 0·5	32	•	•	•	•	48·3	-2·2	Nairn.
a Balmoral	930	66	24th	31	20th	60·6	41·3	50·3	- 2·0	3	0·70	18	+ 6	•	•	•	1	28	•	•	•	•	Aberdeen.
p Crieff	432	71	18th	40	20th	64·9	45·6	54·6	- 1·4	4	1·05	27	+ 10	2·9	—	17	•	•	•	•	•	•	Balmoral.
																							Balruddery
a Leith	18	66	21st	43	19, 20	62·1	47·7	54·4	- 1·5	2	0·99	25	+ 14	•	•	•	•	•	•	•	•	•	
a West Linton	769	65	23, 24	36	20th	60·4	42·4	50·8	- 1·7	2	0·97	25	—	*2·7*	—	*16*	1	30	•	•	•	•	*West Linton.*
p Marchmont	498	68	23rd	42	20th	60·6	46·6	53·1	- 0·5	3	0·98	25	+ 12	2·8	- 3·4	16	0	36	•	•	•	•	Marchmont.
a Edinburgh	*441*	*63*	*18th*	*42*	*18th*	*61·0*	*47·3*	*53·7*	—	*2*	*1·19*	*30*	—	2·9	—	16	0	39	•	•	•	•	Edinburgh.
6. *a*, SCOTLAND, W.																							
a Poltalloch	132	66	23rd	42	18th	59·4	48·3	53·5	- 2·5	2	0·72	18	0	•	•	•	•	•	•	•	•	•	
p Glasgow Observatory	180	70	24th	46	19, 20	62·1	49·1	55·2	- 0·5	3	0·77	20	+ 5	5·6	+ 0·2	32	0	35	•	•	•	•	Glasgow.
p Rothesay	170	67	24th	44	19th	58·7	46·9	52·4	- 3·8	4	0·54	14	- 4	*6·2*	—	*36*	0	38	57·1	•	52·7	-0·2	*Rothesay.*
a Kilmarnock	90	69	24th	40	19th	64·7	45·6	54·5	- 1·2	3	0·53	13	—	*6·2*	—	*36*	•	•	56·9	•	51·7	•	*Kilmarnock.*
a Colmonell	170	66	23rd	43	24th	61·9	47·7	54·3	- 1·5	3	0·24	6	- 9	•	•	•	0	39	•	•	•	•	
a Dumfries	160	68	23, 24	42	20th	62·3	49·3	55·4	- 1·5	2	0·30	8	- 6	*5·5*	—	*32*	0	31	53·9	•	53·9	•	*Dumfries.*
Eskdalemuir	*799*	*66*	*23rd*	*37*	*20th*	*60·0*	*43·7*	*51·3*	—	*2*	*1·35*	*34*	—	*4·1*	—	*24*	•	•	•	•	•	•	*Eskdalemuir.*
p Cally, Gatehouse	120	67	24th	40	20th	63·7	46·0	54·2	- 1·9	2	0·59	13	- 4	•	•	•	•	•	•	•	•	•	
b. I. OF MAN. *p* Douglas	277	64	23, 24	45	20th	58·3	48·7	53·2	- 2·4	2	0·75	19	+ 4	6·3	- 1·0	37	0	42	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	67	23rd	37	20th	61·1	45·9	53·0	- 1·5	3	0·97	25	+ 13	3·0	—	18	0	36	54·9	+0·4	50·5	-2·2	Cockle Park.
a Tynemouth	71	64	22nd	45	20th	57·7	48·3	52·7	- 2·0	3	0·39	10	- 2	•	•	•	•	•	•	•	•	•	Tynemouth
p Durham	336	68	23rd	38	20th	62·7	46·1	53·8	- 1·9	3	0·27	7	- 4	2·8	- 3·0	16	0	35	•	•	•	•	Durham.
a North .. *p* Rounton	249	72	23rd	40	20th	63·3	47·3	54·7	- 0·3	5	1·16	30	+ 18	•	•	•	0	55	55·0	•	•	•	Rounton.
a West Witton	*605*	*70*	*23rd*	*39*	*20th*	*63·4*	*47·1*	*54·7*	—	*2*	*0·31*	*8*	—	•	•	•	0	33	55·8	•	49·2	•	*West Witton.*
p Scarborough†	100	66	23rd	45	19th	60·6	49·3	54·6	- 1·1	3	0·40	10	- 1	3·8	—	23	•	•	•	•	52·0	•	Scarborough.
p York	56	72	23rd	43	20th	64·9	50·6	57·3	- 0·3	3	0·12	3	- 10	3·3	- 2·6	20	•	•	55·6	-1·1	52·0	-1·1	York.
b, South .. *a* Spurn Head	26	64	22nd	45	18-20	58·4	48·9	53·3	- 2·6	5	0·51	13	+ 4	*3·6*	—	*21*	•	•	•	•	•	•	*Spurn Head*
a Lincoln	58	72	24th	43	20th	64·5	48·7	56·1	- 2·4	3	0·12	3	- 9	•	•	•	•	•	55·9	-1·9	52·1	-1·6	Lincoln.
a Fulbeck	180	69	22-24	42	20th	64·9	47·6	55·7	- 2·3	3	0·09	2	- 9	2·9	—	17	0	40	56·6	-4·5	52·1	-3·3	Rauceby.
														4·1	—	25	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																							
p Cromer	196	72	23rd	42	20th	63·1	48·1	55·1	- 1·2	4	0·20	5	—	3·8	—	23	•	•	•	•	•	•	Cromer.
p Little Massingham	280	72	22nd	42	20th	62·7	46·6	54·1	- 3·6	3	0·12	3	- 10	3·7	- 2·9	22	0	38	•	•	•	•	Lit. Massingham.
a, North .. *a* Yarmouth	13	65	21st	40	20th	59·9	48·7	53·9	- 2·9	5	0·59	15	+ 4	4·1	—	25	•	•	54·6	-7·7	53·0	-5·2	Yarmouth.
a Norwich	93	72	22nd	43	20th	63·7	49·1	55·9	- 1·1	5	0·30	8	—	*4·6*	—	*28*	0	39	56·4	•	•	•	*Norwich.*
a Geldeston	37	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	Geldeston.
p Cambridge	41	69	22nd	41	20th	63·9	47·1	54·9	- 4·0	3	0·15	4	- 8	2·8	- 3·8	17	0	35	56·8	-3·1	54·0	-2·2	Cambridge.
b, South .. *a* Clacton-on-Sea	54	66	21st	46	18th	61·3	50·0	55·3	- 2·4	4	0·48	12	—	4·3	—	26	0	40	56·4	-2·5	54·5	-2·0	Clacton.
a Rothamsted	424	66	22nd	41	20th	61·3	47·0	53·7	- 3·8	3	0·41	10	- 3	2·8	- 3·6	17	0	33	54·8	•	•	•	Rothamsted.
p Tottenham	51	69	22nd	42	20th	64·6	52·1	57·6	- 0·7	2	0·15	4	—	2·8	—	17	0	40	•	•	55·0	-2·1	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate	479	69	23rd	40	20th	63·0	47·0	54·4	- 1·3	5	0·25	6	- 8	3·8	—	22	0	37	54·3	-0·1	51·7	-0·9	Harrogate.
p Buxton	*987*	*66*	*23rd*	*43*	*20th*	*59·0*	*47·1*	*52·6*	*- 0·8*	*3*	*0·76*	*19*	*0*	*2·3*	—	*14*	0	32	53·7	-2·3	49·1	-1·8	*Buxton.*
														3·3	•	20	0	41	54·1	-2·1	50·5	-1·0	Sheffield.
a Bawtry	65	72	23, 24	43	20th	65·9	49·0	56·9	- 1·0	3	0·07	2	- 9	3·0	- 2·0	21	0	35	55·5	•	52·3	•	Worksop.
a Nottingham	82	70	23rd	44	20th	64·0	49·1	56·0	- 1·8	1	0·04	1	- 11	2·5	—	15	0	39	55·4	-2·8	51·9	-2·7	Nottingham.
b, East .. *p* Birmingham, Edgbsn.	535	69	23rd	43	20th	63·1	48·6	55·4	- 1·6	2	0·03	1	- 12	2·8	—	17	0	31	51·8	-1·5	48·9	-1·2	Birmingham.
a Raunds	205	70	24th	36	20th	65·7	45·6	55·0	- 3·1	3	0·60	15	—	*3·2*	—	*19*	1	25	56·5	•	53·0	•	*Raunds.*
p Oxford	208	65	22, 23	42	20th	63·0	48·3	55·1	- 3·6	3	0·35	9	- 4	2·9	- 3·6	18	0	39	•	•	•	•	Oxford.
a Cheadle	646	69	24th	43	20th	62·6	48·4	55·0	- 0·9	1	0·11	3	- 12	•	•	•	0	41	•	•	•	•	Cheadle.
c, West .. *p* Shrewsbury	191	69	23rd	43	24th	63·6	48·9	55·7	- 2·0	2	0·96	24	—	•	•	•	0	38	•	•	•	•	Shrewsbury.
a Hereford§	291	71	24th	39	20th	65·1	47·1	55·5	- 2·9	2	0·06	2	- 11	*4·0*	•	*24*	0	31	57·4	•	54·5	•	*Malvern.*§
a Bath	66	70	18th	40	20th	65·0	48·4	56·1	- 2·3	3	0·08	2	- 12	3·0	—	18	•	•	58·6	-1·7	55·5	-1·4	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	65	18, 23	36	20th	63·6	44·7	53·5	- 3·4	3	0·13	3	- 11	5·0	—	31	0	42	59·4	-2·0	55·7	-1·0	Worthing.
a Margate	53	69	22, 23	47	20th	63·0	50·9	56·5	- 1·8	2	0·13	3	- 8	3·8	- 2·2	23	0	31	58·1	•	53·5	•	Marlborough.
a Wisley, Surrey	150	68	22nd	44	22nd	64·0	49·4	56·2	- 3·5	3	0·07	2	—	4·2	- 2·0	26	0	41	58·1	-0·7	56·2	+0·4	Margate.
p Salisbury (Wilton)	180	69	18th	41	20th	65·1	46·7	55·3	- 4·1	1	0·08	2	- 11	4·2	—	26	0	35	57·2	-2·5	53·2	-3·1	Wisley.
a Tunbridge Wells	354	67	22nd	43	20th	63·3	47·9	55·1	- 2·7	4	0·34	9	- 4	•	•	•	0	37	59·9	•	•	•	Salisbury.
														3·5	- 3·2	21	0	33	57·7	-3·7	54·5	•	Tunbridge Wells.
a Dungeness	21	63	22nd	48	18th	60·3	51·6	55·7	- 2·0	2	0·12	3	- 6	•	•	•	•	•	•	•	•	•	Littlestone.
p Hastings	178	65	22nd	47	18th	61·6	50·7	55·8	- 2·3	3	0·48	12	+ 1	3·7	- 3·9	23	0	43	58·8	•	55·4	•	Hastings.
p Southampton	64	69	18th	48	18, 21	64·0	51·1	57·1	- 3·2	2	0·11	3	- 9	5·1	- 1·9	31	0	39	•	•	•	•	Southampton.
a Ventnor	59	65	19th	49	18, 21	62·4	51·6	56·6	- 2·5	2	0·24	6	- 5	5·2	- 1·3	32	•	•	•	•	•	•	Ventnor.
LONDON. *p* Kew	18	69	22nd	46	18, 20	64·4	50·2	56·8	- 1·9	3	0·11	3	- 10	3·5	- 3·0	21	0	37	57·0	-2·2	53·6	-1·5	Kew.
a Westminster	*27*	*69*	*22nd*	*47*	*18, 20*	*65·3*	*50·6*	*57·4*	*- 2·0*	*2*	*0·03*	*1*	*- 13*	*3·8*	*- 1·8*	*23*	0	42	•	•	•	•	*Westminster.*
a Greenwich	*155*	*71*	*22nd*	*44*	*20th*	*66·0*	*48·7*	*56·8*	*- 3·2*	*3*	*0·07*	*2*	*- 10*	*3·9*	*- 2·8*	*24*	0	32	•	•	•	•	*Greenwich.*
a Hampstead	*450*	*67*	*22nd*	*43*	*18th*	*62·3*	*48·1*	*54·7*	—	*2*	*0·14*	*4*	—	*3·4*	—	*21*	2	27	•	•	•	•	*Hampstead.*
a Camden Square	*110*	*74*	*22nd*	*46*	*20th*	*68·3*	*50·7*	*58·9*	—	*2*	*0·16*	*4*	—	*3·8*	—	*23*	0	44	•	•	•	•	*Camden Square.*
7. *a*, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	65	23rd	41	20th	60·0	47·1	53·1	- 2·4	2	0·46	12	- 3	4·2	—	25	•	•	•	•	•	•	Hoylake.
p Newton Rigg	559	68	23rd	39	20th	63·0	46·4	54·1	- 0·6	2	0·79	20	+ 8	3·9	—	23	0	38	55·4	•	51·5	•	Aspatria.
p Stonyhurst	375	69	23rd	46	18, 20	62·0	49·3	55·2	- 1·2	2	0·16	4	- 14	4·4	- 2·5	26	0	32	58·3	+1·0	52·0	-0·6	Newton Rigg.
p Blackpool	66	67	23rd	47	24th	61·6	50·3	55·6	- 1·4	3	0·30	8	- 5	2·8	- 3·7	17	0	40	•	•	•	•	Stonyhurst.
a Southport	*37*	*68*	*23rd*	*47*	*24th*	*61·0*	*50·6*	*55·4*	*- 1·6*	*2*	*0·54*	*14*	*+ 2*	4·5	- 2·1	21	0	40	59·1	•	53·2	•	Blackpool.
a Liverpool (Bidston)	188	69	23rd	48	18th	60·9	50·7	55·4	- 1·8	2	0·09	2	- 11	*4·6*	*- 2·2*	*27*	0	41	60·2	-0·6	56·6	-0·8	*Southport.*
a Hawarden Bridge	22	71	23rd	50	20th	63·3	53·4	58·0	+ 0·1	2	0·05	1	- 10	*5·0*	—	*30*	•	•	•	•	•	•	*Liverpool.*
p Manchester (Whit. Pk.)	125	70	23rd	46	20th	63·0	51·6	56·9	- 0·9	2	0·15	4	- 9	*1·9*	—	*11*	0	41	57·2	-0·4	54·6	-0·1	*Manchester (City)*
														1·8	*- 3·5*	*11*	•	•	•	•	•	•	" *(Whit. Park)*
b. NORTH WALES.																							
p Llandudno	71	67	23rd	49	18th	60·4	51·1	55·4	- 2·2	3	0·16	4	- 7	5·4	- 1·3	32	•	•	•	•	•	•	Llandudno.
a Holyhead	15	66	23rd	49	18, 19	59·9	51·1	55·2	- 1·1	3	0·43	11	- 2	*6·0*	—	*36*	•	•	•	•	•	•	*Holyhead.*
p Bettws-y-Coed	148	69	23rd	40	18th	63·1	46·1	54·0	- 3·0	3	0·68	17	—	3·7	—	22	•	•	52·3	-3·0	50·0	-2·2	Bettws-y-Coed.
														6·7	—	41	•	•	•	•	•	•	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						Stations reporting Sunshine and Temperature on the Grass and in the Ground.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.		Deviation from Normal.	Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts.	Lowest Reading.	Mean.	Deviation from average.	Mean.	Deviation from average	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														5·4	—	33	*	*					
a Llangammarch Wells	550	70	18th	37	18th	62·4	46·5	53·9	− 2·5	4	0·41	10	—	4·4	—	27	0	31	55·5	0·0	50·9	−0·9	Aberystwyth. Llangammarch.
a Pembroke	149	61	18th	49	18-20	57·9	50·4	53·9	− 2·2	3	0·72	18	+ 6	5·4	− 2·1	33	*	*	*	*	*	*	Pembroke.
p Cardiff	202	66	18th	44	20th	62·6	48 6	55·1	− 3·8	3	0·38	9	− 6	*5·4*	—	*33*	0	38	57·7	−2·8	53·5	−2·3	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	69	18, 23	45	20th	64·9	49·7	56·8	− 2·1	3	0·27	7	− 7	*4·4*	—	*37*	0	42	*	*	*	*	*Clifton.*
a Shaftesbury	722	66	18th	39	18th	61·9	45·9	53·3	− 3·6	3	0·42	11	− 3	*	*	*	*	*	56·6	*	53·9	*	Shaftesbury.
a Arlington	613	67	18th	40	20th	62·0	46·3	53·6	− 2·0	4	0·52	13	− 6	*	*	*	*	*	*	*	*	*	Arlington.
a Newquay	*190*	*65*	*19th*	*45*	*18th*	*59·6*	*50·9*	*55·0*	− *2·6*	*0*	*0·01*	*0·3*	− *11*	5·5	− 1·8	34	*	*	57·3	*	54·1	*	Newquay.
a Cullompton	202	71	18th	37	20, 21	64·9	45·4	54·5	− 3·6	3	0·23	6	− 7	4·3	− 2·2	26	0	33	59·4	*	*	*	Cullompton.
a Portland Bill	19	62	19, 23	48	18, 20	58·6	50·0	54·0	− 3·2	1	0·08	2	—	*4·4*	—	*37*	*	*	*	*	*	*	*Weymouth.*
p Plymouth	116	62	23rd	44	21st	60·1	49·9	54·6	− 4·3	3	0·49	13	0	4·1	− 2·9	25	*	*	59·1	−1·2	55·0	*	Plymouth.
a Falmouth	167	68	18th	46	21st	61·6	50·3	55·6	− 2·2	3	0·43	11	− 3	5·9	− 1·6	37	0	39	60·4	*	57·2	*	Falmouth.
9. IRELAND, N.																							
a, West .. *a* Malin Head	208	65	21st	47	18, 19	58·7	49·6	53·8	− 0·4	4	0·15	4	− 9	*4·1*	—	*24*	*	*	*	*	*	*	*Malin Head.*
a Blacksod Point ..	?	59	22nd	45	24th	56·6	48·6	52·3	− 3·5	3	0·80	15	0	*	*	*	*	*	*	*	*	*	
p Markree Castle ..	122	67	23rd	47	18th	60·6	49·3	54·6	− 0·5	4	0·73	19	+ 2	1·9	− 3·6	11	0	43	57·3	*	52·3	*	Markree Castle.
a Birr Castle	175	65	18, 23	49	18, 19	61·6	50·7	55·8	− 0·9	3	0·83	21	+ 7	*2·9*	− *2·7*	*17*	*	*	*	*	*	*	*Birr Castle.*
b, East .. *p* Armagh	196	69	24th	43	18th	62·6	47·9	54·7	− 1·3	2	0·24	6	− 9	4·4	− 1·3	26	0	37	57·1	−0·8	52·8	−1·4	Armagh.
a Donaghadee	101	62	21st	47	18, 19	57 4	49·3	53·1	− 2·5	3	0·32	8	− 5	*	*	*	*	*	*	*	*	*	
														*	*	*	0	38	58·1	0·0	54·1	−0·8	Trinity Coll.
10. IRELAND, S.														4·2	− 2·3	25	0	34	*	*	*	*	Phœnix Park.
a, East .. *p* Dublin, City	47	65	21, 24	47	20th	62·3	50·7	56·1	− 2·3	4	0·26	7	− 4	*	*	*	0	44	*	*	*	*	Dublin City.
a Kilkenny	212	68	18th	49	18th	62·3	51·0	56·3	− 1·0	3	0·86	22	+ 8	*	*	*	*	*	*	*	*	*	
a Waterford	20	70	18th	49	18th	62·3	51·7	56·6	− 1·1	3	1·52	39	+ 22	*	*	*	*	*	*	*	*	*	
a Seskin, Carrick-on-Suir	*541*	*68*	*18th*	*45*	*20th*	*61·7*	*48·4*	*54·6*	—	*3*	*1·48*	*38*	—	*4·3*	—	*26*	0	44	*	*	*	*	*Seskin.*
a, West .. *a* Birr Castle	175	65	18, 23	49	18, 19	61·6	50·7	55·8	− 0·9	3	0·83	21	+ 7	2·9	− 2 7	17	*	*	*	*	*	*	Birr Castle.
a Foynes	50	67	18th	48	20th	64·3	49·9	56·6	− 0·9	3	0·80	20	+ 6	*	*	*	*	*	*	*	*	*	
a Cahir	198	70	18th	48	18, 20	63·6	50·6	56·7	− 0·3	3	0·95	24	—	*	*	*	*	*	*	*	*	*	
a Killarney	174	68	18, 24	48	18, 24	64·1	50·9	57·0	+ 0·1	3	0·61	15	− 2	*	*	*	*	*	*	*	*	*	
a Valencia	30	63	22nd	46	24th	59·1	50·9	54·7	− 2·4	4	0·87	22	+ 3	5·0	− 1·3	30	*	*	*	*	*	*	Valencia.
a Roche's Point	32	70	18th	49	20th	62·1	52·1	56·8	− 0·4	3	1·38	35	+ 19	4·3	—	26	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	63	20th	51	18-21	60·1	51·7	55·6	− 2·4	3	0·47	12	+ 2	6·7	− 1·4	42	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	66	22nd	47	21st	62·0	50·9	56·1	− 3·2	2	0·20	5	− 7	4·6	− 3·5	29	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	66	23rd	49	20th	62·7	51·1	56·5	− 2·0	3	0·06	2	− 10	4·0	− 4·2	25	0	40	59·1	−1·9	57·3	−0·3	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, June 24th, 1916.

District and Station.	Height.			Distribution of Wind.								Extreme Velocities.					
	Above Mean Sea Level.	Above Ground.	Above Building.	Gales, force 8 or more.		High Winds, forces 6 and 7.		Fresh or Moderate Winds, forces 4 and 5.	Light Winds, forces 2 and 3.	Calms and Light Airs, forces 0 and 1.	No Record.	Highest Hourly Wind.				Highest Gust with Date and Time, G.M.T.		
				Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Velocity.		Date and Hour, G.M.T.				
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.			m/s.	d.	h. m.
1. SCOTLAND, E.																		
Dyce	305	75	‡15**	—	—	—	—	13	88	67	0	—	8	19th	13h.	20	19th	12 . 30
Aberdeen*	153	105 { 37 52 } †		—	—	19th	5	35	89	39	0	NW. by N.	13	19th	14h.	21	19th	12 . 35
Edinburgh	485	39	31	—	—	—	—	49	104	15	0	WSW.	9	24th	24h.	13	19th	11 . 29
6. SCOTLAND, W.																		
Eskdalemuir	850	50	22	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Paisley	188	81	52	—	—	—	—	19	113	23	13	NW. by N.	8	18th	15h.	15	19th	17 . 40
2. ENGLAND, N.E.																		
Alnwick Castle	340	70	17	—	—	—	—	11	84	63	10	N. by W.	8	19th	9h.	15	19th	8 . 29
South Shields	72	61	12	—	—	—	—	41	83	44	0	W. by N.	9	20th	21h.	13	19th	7 . 35
Spurn Head	66	40	‡	—	—	—	—	23	109	27	9	—	10	19th	13h.	13	19th	12 . 56?
3. ENGLAND, E.																		
Gorleston	52	42	‡	—	—	—	—	38	110	20	—	—	9	24th	16h.	12	24th	14 . 10
Shoeburyness	103	90	‡	—	—	24th	5	25	127	11	0	SW. by S.	11	24th	16h.	15	24th	13 . 15
4. MIDLAND COUNTIES.																		
Benson	270	84	‡	—	—	—	—	22	107	39	0	S.	9	23rd	12h.	14	24th	14 . 50
5. ENGLAND, S.E.																		
Dover	271	40	‡	—	—	19, 24	3	46	57	62	0	—	12	24th	16h.	16	24th	16 . 5
Warlingham	642	33	‡	—	—	—	—	15	138	15	0	—	8	24th	17h.	13	24th	15 . 10
Brighton	261	53	6	—	—	—	—	16	122	30	0	—	8	24th	15h.	14	24th	15 . 10
Kew Observatory ..	82	65 { 6 22 } †		—	—	—	—	16	104	48	0	SSW.	8	24th	14h.	14	24th	13 . 36
South Kensington ..	123	92	30	—	—	—	—	—	103	65	0	SSW.	5	24th	15h.	11	24th	18 . 8
7. ENGLAND, N.W.																		
Carnforth	246	56	23	—	—	—	—	2	71	95	0	WSW.	7	20th	15h.	11	20th	15 . 7
Southport	80	62	48	—	—	18 to 20	15	76	68	9	0	WNW.	12	18th	19h.	15	18th	19 . 9
Holyhead*	60	40	‡	—	—	19, 22	12	108	39	9	0	NW. by N.	13	19th	3h.	17	19th	6 . 45
8. ENGLAND, S.W.																		
Pendennis Castle§ ..	256	65	24	—	—	22, 23	17	91	49	11	0	S.	14	22nd	15h.	18	23rd	21 . 32
Plymouth	185	88	2	—	—	22nd	2	69	71	26	0	—	11	22nd	19h.	15	22nd	14 . 52
Lyme Regis	556	61	‡	—	—	—	—	23	90	55	0	—	9	24th	11h.	13	24th	12 . 36
10. IRELAND, S.																		
Quilty	100	40	‡	—	—	—	—	61	94	13	0	—	10	23rd	21h.	14	23rd	18 . 10
Weaver Pt.	160	30	‡	—	—	—	—	82	79	7	0	—	10	19th	9h.	15	19th	8 . 50
11. ENGLISH CHANNEL.																		
Scilly*	150	{ 32 19 }	‡	—	—	23, 24	3	74	58	31	2	WNW.	12	23rd	24h.	16	23rd	23 . 59

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.
† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

TWENTY-FIFTH WEEK—June 18th to June 24th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Accumulated Number of Day-Degrees. Deviation from Normal.	Accumulated Number of Day-Degrees. Below 42°	Accumulated Number of Day-Degrees. Deviation from Normal.	Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	72	41	88·2	80·9	84·3	− 0·6	73	− 7	0	0	4	0	0·70	18	0	4·5	−0·4	25	1013
Eastern.																			
1. SCOTLAND, EAST ...	72	31	89·4	80·4	84·6	− 1·1	76	− 14	0	0	3	0	1·25	32	+ 18	3·9	−2·1	22	1013
2. ENGLAND, N.E.	72	37	89·7	81·9	85·6	− 0·7	88	− 10	0	0	3	− 1	0·45	11	0	3·3	−2·9	20	1015
3. ENGLAND, EAST ...	72	40	89·9	82·2	85·8	− 1·5	92	− 18	0	0	4	+ 1	0·30	8	− 3	3·5	−3·3	21	1016
4. MIDLAND COUNTIES ...	72	36	90·8	81·9	86·1	− 1·1	95	− 14	0	0	2	− 1	0·26	7	− 5	3·1	−3·0	19	1016
5. ENGLAND, S.E.	69	36	90·3	82·7	86·3	− 1·4	97	− 19	0	0	3	+ 1	0·18	5	− 5	4·2	−2·7	26	1017
Western.																			
6. SCOTLAND, WEST ...	70	40	89·3	81·7	85·3	− 1·0	85	− 13	0	0	3	− 1	0·54	14	− 4	6·0	−0·3	35	1014
7. ENGLAND, N.W.	71	39	89·5	82·8	85·9	− 1·0	93	− 12	0	0	2	− 1	0·33	8	− 7	4·5	−1·9	26	1015
8. ENGLAND, S.W.	71	37	89·5	82·1	85·5	− 1·7	88	− 21	0	0	3	− 1	0·39	10	− 4	5·0	−1·8	31	1016
9. IRELAND, NORTH ...	69	43	88·3	82·5	85·3	− 1·0	85	− 12	0	0	3	− 1	0·48	12	− 5	3·2	−2·4	19	1015
10. IRELAND, SOUTH ...	70	46	89·9	83·5	86·5	− 0·6	100	− 8	0	0	3	− 1	0·90	23	+ 7	4·1	−1·8	25	1016
11. ENGLISH CHANNEL ...	66	47	89·4	83·7	86·4	− 1·3	99	− 16	0	0	3	0	0·24	6	− 4	5·1	−3·0	32	1017

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 3 Weeks, June 4th to June 24th, 1916.

0. SCOTLAND, NORTH ...	73	35	86·2	79·8	82·8	− 1·5	161	− 59	0	− 2	11	0	1·95	50	+ 2	3·9	−1·5	22	1013
Eastern.																			
1. SCOTLAND, EAST ...	72	30	87·1	79·1	82·8	− 2·2	163	− 82	2	+ 1	11	+ 2	2·60	66	+ 28	4·1	−1·9	23	1012
2. ENGLAND, N.E.	72	32	87·2	80·1	83·4	− 2·1	184	− 81	0	0	11	+ 2	1·57	39	+ 7	3·9	−2·3	23	1013
3. ENGLAND, EAST ...	72	36	87·9	80·5	84·0	− 2·6	206	− 97	0	0	14	+ 5	2·00	51	+ 14	4·6	−2·1	28	1013
4. MIDLAND COUNTIES ...	72	34	88·7	80·0	84·1	− 2·5	208	− 95	0	0	9	+ 1	1·17	30	− 6	4·1	−2·0	25	1014
5. ENGLAND, S.E.	70	35	88·6	80·7	84·4	− 2·7	219	−105	0	0	12	+ 4	1·53	40	+ 5	5·6	−1·3	35	1014
Western.																			
6. SCOTLAND, WEST ...	74	32	88·8	80·0	84·1	− 1·7	210	− 63	0	0	9	− 1	0·98	25	− 24	7·3	+0·8	43	1013
7. ENGLAND, N.W.	74	37	87·9	81·1	84·2	− 2·1	216	− 74	0	0	8	− 1	1·40	35	− 3	5·9	−0·7	35	1014
8. ENGLAND, S.W.	71	35	88·3	80·8	84·3	− 2·4	217	− 91	0	0	9	− 1	1·43	36	− 5	6·6	−0·3	41	1015
9. IRELAND, NORTH ...	73	35	87·3	80·5	83·7	− 2·1	195	− 75	0	0	9	− 2	1·00	25	− 21	6·4	+0·6	38	1015
10. IRELAND, SOUTH ...	75	35	89·2	81·4	85·0	− 1·6	244	− 59	0	0	10	0	1·48	38	− 6	7·3	+1·0	45	1016
11. ENGLISH CHANNEL ...	68	40	88·4	82·5	85·3	− 1·9	254	− 70	0	0	9	− 1	0·76	19	− 12	7·0	−1·0	44	1016

THE YEAR.—Aggregates, &c., for the Period of 25 Weeks, January 2nd to June 24th, 1916.

0. SCOTLAND, NORTH ...	76	20	81·8	76·1	78·9	0·0	580	− 88	454	−103	126	+11	28·25	716	+139	2·9	−0·6	24	1008
Eastern.																			
1. SCOTLAND, EAST ...	77	7	82·2	75·4	78·7	− 0·3	630	−146	585	− 35	112	+19	19·22	490	+167	3·4	−0·6	24	1009
2. ENGLAND, N.E.	81	20	83·3	76·8	79·9	+ 0·3	847	+ 30	379	− 96	98	+12	12·77	324	+ 75	3·5	−0·7	28	1011
3. ENGLAND EAST ...	83	24	84·1	77·1	80·5	+ 0·5	990	− 4	353	−168	99	+15	13·86	350	+102	3·9	−0·5	32	1012
4. MIDLAND COUNTIES ...	83	21	84·2	76·6	80·3	+ 0·3	968	− 54	405	−128	95	+13	13·99	357	+ 75	3·4	−0·6	28	1012
5. ENGLAND, S.E.	80	15	84·6	77·6	81·0	+ 0·3	1092	+ 1	294	− 87	99	+20	14·37	365	+ 87	4·2	−0·2	34	1013
Western.																			
6. SCOTLAND, WEST ...	77	17	83·0	76·7	79·8	− 0·1	782	− 83	365	− 60	113	+14	20·51	523	+ 22	4·0	0·0	32	1010
7. ENGLAND N.W.	79	8	83·5	77·5	80·4	+ 0·2	891	− 23	310	− 76	102	+12	16·55	421	+ 72	3·7	−0·4	30	1012
8. ENGLAND, S.W.	79	17	84·0	77·8	80·8	− 0·1	996	− 77	279	− 22	104	+14	18·19	466	+ 66	4·2	−0·3	34	1013
9. IRELAND NORTH ...	76	18	83·2	76·9	80·0	− 0·4	804	−126	334	− 11	120	+14	18·71	477	+ 74	3·7	−0·2	30	1011
10. IRELAND, SOUTH ...	77	20	84·3	77·8	80·9	− 0·3	1017	−105	244	− 15	126	+30	18·58	470	+ 32	4·1	−0·2	34	1013
11. ENGLISH CHANNEL ...	79	30	84·7	79·7	82·1	− 0·1	1227	− 16	85	− 24	106	+ 9	15·23	384	+ 50	4·8	−0·5	39	1014
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	m.m.	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., June 29th, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 26. SUNDAY, JUNE 25TH, TO SATURDAY, JULY 1ST, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE TWENTY-SIXTH WEEK OF 1916.

This period was marked by a further prolongation of the dull, damp and very cool weather so long prevalent. With the exception of a small deficiency in Scotland North and the normal in the English Channel, the rainfall, both as regards frequency and quantity, was above the average, Ireland South receiving double the normal, and England South-West 223 per cent. As a rule, however, the daily falls were more in the nature of frequent but not heavy showers, there being few records of over 12 mm. (½ in.) on any day, the largest amounts being 20 mm. at Crieff, and 31 mm. at Cardiff on June 27th, 24 mm. at Cahir on the 30th, and 18 mm. in 45 minutes at Over Court, Bristol, on July 1st. Thunder occurred at Cullompton, Shaftesbury and Douglas on the 27th, thunderstorms at Hastings and Brighton next day, and in Norfolk on the 30th. Temperature was again below the normal everywhere, by 1½° A. (2½° F.) in Scotland North and England East, and about 2° A. (over 3½° F.) in England South-East, the Midlands and Ireland North. Very few of the afternoon records reached 294° A. (70° F.), and the great majority were below 291° A. (64° F.). The nights were relatively milder, many of the minima exceeding 283° A. (50° F.), 287½° A. (58° F.) at Hoylake on the 26th, and 286½° A. (56° F,) at Hawarden on the 27th. There was great lack of bright sunshine in all districts, less than 50 per cent. in several, only 24 per cent. in Scotland North. The temperature of the sea surface water was about normal off the west of Ireland, Berwick and the Isle of Man, under the average elsewhere, by as much as 2½° A. (4¾° F.) off Wick.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		ENGLAND, E.		NORTH WALES.		ENGLAND, S.W.		IRELAND, S.	
	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.	Frequency (Max. 7.)	Mean Velocity.
		m/s		m/s		m/s		m/s		m/s
South	—	—	5	2·9	4	4·6	2	4·1	3	2·9
North	—	—	2	2·9	3	5·3	4	4·4	4	4·0
West	—	—	5	2·7	6	3·9	7	5·4	6	3·8
East	—	—	2	1·0	1	3·5	0	—	1	0·9
Calm	—	—	0	—	0	—	0	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with normal for the time of year ... Warmth ...	Deficient	Very deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Very deficient
Rainfall ...	Moderate	Heavy	Moderate	Moderate	Moderate	Heavy	Heavy	Heavy	Heavy	Moderate	Heavy	Moderate
Sunshine ...	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Scanty	Very scanty	Scanty	Scanty

II.—THE SUMMER SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SUMMER, 4 weeks from June 4th, 1916.	Warmth ...	0, 1, 3	0, 0, 4	0, 0, 4	0, 0, 4	0, 0, 4	0, 0, 4	0, 0, 4	0, 1, 3	0, 0, 4	0, 1, 3	0, 1, 3	0, 0, 4
	Rainfall ...	1, 2, 1	3, 0, 1	1, 3, 0	2, 2, 0	1, 2, 1	2, 2, 0	1, 2, 1	2, 1, 1	2, 1, 1	0, 3, 1	2, 1, 1	0, 3, 1
	Sunshine ...	0, 2, 2	1, 0, 3	0, 0, 4	0, 1, 3	0, 0, 4	0, 1, 3	1, 1, 2	1, 0, 3	0, 2, 2	1, 0, 3	1, 1, 2	0, 1, 3

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914. Increment of 1° A. = increment of ⅘° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(8553—19.) Wt. 79a—736. 450. 7/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.							Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	F.°	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.																							
p Baltasound	*31*	—		—		—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	*Baltasound.*
a, Islands.. *a Lerwick*	54	56	27th	46	28, 1	52·1	46·9	49·3	- 0·9	4	0·33	9	—	0·1	- 4·8	1	*	*	*	*	*	*	Deerness.
a Stornoway	51	62	1st	46	28th	56·9	48·1	52·2	- 0·8	5	0·34	9	- 6	2·1	- 3·8	12	*	*	*	*	*	*	Stornoway
a Castlebay, Barra Isd.	*37*	*58*	*29th*	*45*	*29th*	*56·3*	*48·7*	*52·2*	*- 1·2*	*3*	*0·41*	*10*	—	*6·3*	—	*36*	*	*	*	*	*	*	*Castlebay.*
b, Mainland. *a Wick*	81	54	30th	48	25, 26, 29	52·1	48·4	50·1	- 2·6	6	1·04	26	+ 13	*	*	*	*	*	*	*	*	*	
p Strathpeffer	200	60	1st	48	26, 30	58·7	50·9	54·5	- 0·2	5	0·48	12	- 1	0·3	- 4·7	2	*	*	*	*	*	*	Strathpeffer.
p Glencarron	500	59	1st	45	26th	55·0	47·3	50·9	- 2·5	5	0·90	23	- 3	*	*	*	*	*	*	*	*	*	
p Fort Augustus	68	62	1st	43	26th	58·9	49·3	53·8	- 0·9	5	0·88	22	+ 9	1·2	- 3·0	7	*	*	*	*	*	*	Fort Augustus.
p Fort William	171	64	26th	46	26th	60·0	49·1	54·2	- 1·6	5	0·17	4	- 20	*	*	*	*	*	*	*	*	*	
1. SCOTLAND, E.																							
p Gordon Castle	101	65	1st	46	26, 1	57·9	48·1	52·7	- 2·8	6	1·26	32	+ 18	1·6	—	9	0	35	54·3	-1·4	50·8	-1·6	Crathes.
a Nairn	82	61	26, 1	41	1st	58·0	47·6	52·4	- 2·6	5	0·49	12	+ 1	*2·2*	—	*12*	*	*	*	*	*	*	*Gordon Castle.*
a Aberdeen	46	62	1st	47	28, 1	57·9	49·1	53·2	- 1·5	6	0·83	21	+ 8	2·1	—	12	*	*	*	*	*	*	Nairn.
a Balmoral	930	59	27, 1	35	1st	56·6	45·1	50·5	- 2·7	6	0·75	19	+ 6	2·2	- 3·8	13	*	*	*	*	49·4	-1·6	Aberdeen.
p Crieff	432	63	27, 29	43	26th	60·9	46·4	53·2	- 3·4	6	1·17	30	+ 13	*	*	*	0	34	*	*	*	*	Balmoral.
a Leith	18	61	28, 29	41	1st	59·7	47·9	53·4	- 3·3	5	0·67	17	+ 5	1·2	*	7	*	*	*	*	*	*	Balruddery.
a West Linton	769	62	26th	36	1st	57·6	43·6	50·1	- 3·2	5	0·67	17	—	*	*	*	*	*	*	*	*	*	
p Marchmont	498	61	26th	42	1st	59·3	45·9	52·1	- 2·5	3	0·80	20	+ 5	*1·8*	—	*11*	2	30	*	*	*	*	*West Linton.*
a Edinburgh	*441*	*61*	*28th*	*46*	*29th*	*58·0*	*47·7*	*52·5*	—	*4*	*0·80*	*20*	—	1·9	- 4·2	11	0	36	*	*	*	*	Marchmont.
														2·0	—	14	0	44	*	*	*	*	Edinburgh.
6. a, SCOTLAND, W.																							
a Poltalloch	132	60	26, 27, 29	48	27, 30	58·7	50·6	54·4	- 2·2	5	0·57	14	- 5	*	*	*	*	*	*	*	*	*	
p Glasgow Observatory	180	61	27, 29	47	29, 30	59·4	49·6	54·2	- 1·9	5	1·04	26	+ 10	2·1	- 3·2	12	0	39	*	*	*	*	Glasgow.
p Rothesay	170	62	30, 1	45	29, 30, 1	60·0	46·6	52·8	- 4·0	5	0·50	13	- 6	*3·9*	—	*23*	0	39	57·0	*	53·0	-0·4	*Rothesay.*
a Kilmarnock	90	65	29, 30	39	30th	62·1	48·4	54·8	- 1·9	4	0·75	19	—	*4·4*	—	*26*	*	*	56·5	*	52·3	*	*Kilmarnock.*
a Colmonell	170	62	29, 30	38	30th	59·7	47·9	53·4	- 2·9	4	0·90	23	+ 8	*	*	*	0	35	*	*	*	*	
a Dumfries	160	62	29th	41	30th	60·1	48·7	54·0	- 3·5	3	0·78	20	+ 5	*3·6*	—	*21*	0	34	57·2	*	54·9	*	*Dumfries.*
Eskdalemuir	*799*	*61*	*30th*	*33*	*30th*	*59·0*	*44·6*	*51·3*	—	*3*	*0·94*	*24*	—	*3·1*	—	*18*	*	*	*	*	*	*	*Eskdalemuir.*
p Cally, Gatehouse	120	66	27th	39	30th	61·4	46·3	53·3	- 3·4	4	1·36	35	+ 17	*	*	*	*	*	*	*	*	*	
b, I. OF MAN. *p Douglas*	277	62	25th	45	29th	58·3	48·7	53·2	- 2·9	6	1·28	32	+ 16	3·7	- 3·4	22	0	41	*	*	*	*	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	62	28-30	41	30th	60·3	47·0	53·2	- 2·2	3	0·56	14	+ 1	1·9	—	11	0	36	53·3	-2·6	51·5	-1·4	Cockle Park.
a Tynemouth	71	63	29th	47	28, 29, 1	57·9	48·9	53·1	- 2·6	4	0·39	10	- 2	*	*	*	*	*	*	*	*	*	Tynemouth
p Durham	336	64	28th	42	30th	60·4	47·3	53·4	- 3·1	4	0·44	11	- 1	2·3	- 3·4	14	0	36	*	*	*	*	Durham.
a North.. *p Rounton*	249	64	25th	45	1st	60·1	47·6	53·4	- 2·5	5	0·30	8	- 4	*	*	*	0	39	56·0	*	*	*	Rounton.
a West Witton	*605*	*62*	*28th*	*44*	*29th*	*59·1*	*48·4*	*53·4*	—	*5*	*0·40*	*10*	—	*	*	*	0	41	56·0	*	50·2	*	*West Witton.*
p Scarborough†	100	66	25, 26, 30	47	28th	58·7	50·0	56·4	- 0·2	1	0·14	4	- 7	4·5	—	27	*	*	*	*	52·8	*	Scarborough.
p York	56	67	25th	45	29th	63·3	50·0	56·2	- 2·1	4	0·31	8	- 5	3·9	- 2·0	23	*	*	57·2	+0·3	53·2	-0·4	York.
b, South.. *a Spurn Head*	26	65	25, 26	48	28, 1	60·6	50·4	55·1	- 1·7	4	0·91	23	+ 14	*2·7*	—	*16*	*	*	*	*	*	*	*Spurn Head*
a Lincoln	58	68	25th	46	29, 1	64·2	49·4	56·3	- 3·0	4	0·57	14	+ 2	*	*	*	*	*	58·3	+0·3	53·4	-0·7	Lincoln.
a Fulbeck	180	66	25, 28, 29	44	29th	63·3	48·6	55·4	- 3·3	5	0·54	14	+ 2	3·1	—	19	0	36	58·4	-2·4	53·1	-1·9	Rauceby.
														4·3	—	26	*	*	*	*	*	*	Skegness.
3. ENGLAND, E.																							
p Cromer	196	67	25, 26	46	1st	63·0	49·7	55·9	- 1·7	5	0·23	6	—	3·7	—	22	*	*	*	*	*	*	Cromer.
p Little Massingham	280	75	25th	44	1st	64·6	48·7	56·1	- 2·3	6	0·57	15	+ 1	3·0	- 3·6	18	0	44	*	*	*	*	Lit. Massingham.
a, North.. *a Yarmouth*	13	67	25th	47	29th	63·0	51·0	56·6	- 1·1	3	0·33	8	- 4	5·0	—	30	*	*	57·6	-4·7	54·0	-4·7	Yarmouth.
a Norwich	93	71	25th	47	1st	65·3	51·0	57·7	- 0·4	4	0·54	14	—	*3·5*	—	*21*	0	43	59·0	*	*	*	*Norwich.*
a Geldeston	37	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	Geldeston.
b, South.. *p Cambridge*	41	68	25th	45	29, 1	65·0	49·7	56·8	- 2·8	3	0·16	4	- 8	1·8	- 4·8	11	0	39	58·5	-1·6	55·0	-1·8	Cambridge.
a Clacton-on-Sea	54	66	30th	49	1st	64·3	51·7	57·6	- 1·1	4	0·76	19	—	4·7	—	29	0	45	58·7	-0·3	55·8	-1·2	Clacton.
a Rothamsted	424	66	25th	47	1st	62·1	49·1	55·2	- 3·2	6	0·54	14	+ 1	2·8	- 3·7	17	0	43	56·2	*	*	*	Rothamsted.
p Tottenham	51	70	25th	51	1st	66·1	52·6	58·9	- 1·1	3	0·36	9	—	3·6	—	*24*	0	47	*	*	56·1	-1·5	Tottenham.
4. MIDLAND COUNTIES.																							
a North.. *a Harrogate*	479	64	25th	44	1st	59·6	47·1	52·9	- 3·5	6	0·26	7	- 7	5·1	—	30	0	37	55·0	+0·5	53·0	+0·1	Harrogate.
p Buxton	*987*	*62*	*25th*	*45*	*26, 30*	*58·9*	*46·6*	*52·3*	*- 3·1*	*4*	*0·70*	*18*	*- 1*	*3·1*	—	*19*	0	34	54·9	-1·6	50·2	-1·2	*Buxton.*
b, East.. *a Bawtry*	65	65	29th	45	29th	62·7	48·6	55·2	- 3·5	4	0·63	17	+ 6	4·0	*	24	0	39	55·8	-0·6	51·4	-0·7	Sheffield.
a Nottingham	82	67	25th	46	1st	62·6	49·3	55·5	- 3·1	5	0·67	17	+ 5	3·1	- 2·4	19	0	37	56·2	*	53·4	*	Worksop.
p Birmingham, Edgbsn.	535	67	25th	47	29th	61·3	48·9	54·7	- 3·0	5	0·67	17	+ 4	2·1	—	13	0	39	56·5	-1·6	53·4	-1·6	Nottingham.
a Raunds	203	69	25th	46	29th	65·3	49·1	56·6	- 2·6	6	0·52	13	—	2·9	—	17	0	36	53·0	-0·3	49·5	-1·0	Birmingham.
p Oxford	208	66	25th	47	29th	62·9	50·9	56·5	- 2·9	5	0·39	10	- 3	*2·7*	—	*16*	0	37	58·9	*	53·9	*	*Raunds.*
														2·6	- 3·9	16	0	42	*	*	*	*	Oxford.
c, West.. *a Cheadle*	646	68	25th	42	1st	62·1	47·0	51·0	- 2·6	5	0·96	24	+ 9	*	*	*	0	42	*	*	*	*	Cheadle.
p Shrewsbury	191	68	25th	47	29th	62·6	50·3	56·0	- 2·2	6	0·76	19	—	*	*	*	0	42	*	*	*	*	Shrewsbury.
a Hereford§	291	68	25th	43	26th	64·7	47·9	55·7	- 3·2	6	0·58	15	+ 2	*	*	*	0	35	59·0	*	55·5	*	*Malvern.§*
a Bath	66	68	25th	46	29th	64·0	51·0	57·1	- 2·0	4	0·91	23	+ 9	2·4	—	15	*	*	59·1	-1·5	56·3	-1·1	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	65	28th	40	29th	62·7	48·1	54·9	- 3·0	5	0·69	18	+ 3	4·6	—	28	0	43	61·0	-0·6	56·6	-0·7	Worthing.
a Margate	53	68	25th	48	1st	65·0	51·4	57·7	- 1·7	4	0·50	13	+ 2	2·5	- 3·5	15	0	35	57·9	*	53·9	*	Marlborough.
a Wisley, Surrey	150	70	25th	46	1st	66·0	49·9	57·4	- 3·2	4	0·34	9	—	4·1	- 2·1	25	0	43	60·2	+1·2	57·8	+1·6	Margate.
p Salisbury (Wilton)	180	70	25th	44	29th	64·6	48·7	56·1	- 4·1	3	0·59	15	+ 2	4·5	—	28	0	37	58·2	-1·6	54·2	-2·5	Wisley.
a Tunbridge Wells	354	67	28th	43	1st	63·9	48·6	55·7	- 2·9	4	0·47	12	- 1	*	*	*	0	43	59·9	*	*	*	Salisbury.
														4·1	- 2·6	25	0	33	58·5	-2·8	55·5	*	Tunbridge Wells.
a Dungeness	21	62	25, 1	48	1st	61·1	51·4	55·9	- 2·6	4	1·02	26	+ 17	*	*	*	*	*	*	*	*	*	
p Hastings	178	64	28, 30	47	1st	62·3	51·7	56·6	- 2·4	5	0·89	23	+ 11	4·8	- 2·8	29	0	43	60·4	*	56·3	*	Littlestone.
p Southampton	64	67	25th	47	29th	64·0	51·7	57·4	- 3·5	3	0·63	16	+ 4	4·8	- 2·2	29	0	38	*	*	*	*	Hastings.
a Ventnor	59	65	28th	49	29th	62·0	52·6	57·0	- 3·1	3	0·66	17	+ 5	4·6	- 1·9	29	*	*	*	*	*	*	Southampton.
																							Ventnor.
LONDON. *p Kew*	18	70	30th	49	1st	66·2	51·6	58·4	- 1·2	3	0·47	12	- 1	3·9	- 2·6	24	0	39	58·3	-1·0	54·5	-1·2	Kew.
a Westminster	*27*	*69*	*25th*	*48*	*1st*	*66·4*	*51·7*	*58·5*	*- 1·8*	*5*	*0·40*	*10*	*- 3*	*3·9*	*- 1·7*	*24*	0	45	*	*	*	*	*Westminster.*
a Greenwich	*155*	*73*	*26th*	*46*	*1st*	*68·4*	*49·9*	*58·5*	*- 2·5*	*4*	*0·47*	*12*	*0*	*4·9*	*- 2·0*	*30*	0	34	*	*	*	*	*Greenwich.*
a Hampstead	*450*	*68*	*25th*	*46*	*1st*	*63·7*	*48·5*	*55·6*	—	*4*	*0·48*	*12*	—	*4·0*	—	*24*	0	35	*	*	*	*	*Hampstead.*
a Camden Square	*110*	*73*	*25th*	*50*	*1st*	*68·9*	*52·0*	*59·9*	—	*4*	*0·41*	*10*	—	*4·1*	—	*25*	0	46	*	*	*	*	*Camden Square.*
7. a, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	61	27th	44	30th	58·4	47·9	52·8	- 3·1	2	0·80	20	+ 4	2·5	—	15	*	*	*	*	*	*	Hoylake.
p Newton Rigg	559	64	27th	44	29, 30	59·9	47·1	53·1	- 2·3	5	0·96	24	+ 11	3·2	—	19	0	42	55·0	*	52·0	*	Aspatria.
p Stonyhurst	375	65	27th	47	28, 30	60·4	49·9	54·8	- 2·8	3	0·46	12	- 7	3·4	- 3·1	20	0	37	57·0	-0·5	52·7	-0·3	Newton Rigg.
p Blackpool	66	66	27th	48	28, 30	61·6	50·9	55·9	- 1·7	5	0·58	15	+ 2	3·3	- 3·1	20	0	41	*	*	*	*	Stonyhurst.
a Southport	*37*	*62*	*27th*	*48*	*28, 30*	*60·0*	*50·9*	*55·1*	*- 2·5*	*5*	*0·62*	*16*	*+ 3*	*3·4*	*- 3·3*	*20*	0	38	59·8	*	53·9	*	Blackpool.
a Liverpool (Bidston)	188	62	26, 27	49	30th	59·9	51·6	55·5	- 2·8	6	0·71	18	+ 4	*2·9*	—	*17*	*	*	61·1	+0·1	57·5	-0·4	*Southport.*
a Hawarden Bridge	22	66	25th	52	30th	61·7	54·0	57·6	- 0·9	6	0·65	16	+ 4	*3·1*	—	*19*	0	43	58·0	+0·5	55·7	+0·4	*Liverpool.*
p Manchester (Whit. Pk.)	125	65	25th	47	28th	62·3	50·7	56·1	- 2·4	4	0·99	25	+ 11	*3·0*	*- 2·3*	*18*	*	*	*	*	*	*	*Manchester (City)*
																							" (Whit. Park)
b, NORTH WALES.																							
p Llandudno	71	63	26th	50	30, 1	60·0	51·7	55·6	- 2·6	7	1·08	28	+ 16	4·1	- 1·5	25	*	*	*	*	*	*	Llandudno.
a Holyhead	15	61	25th	51	25, 28-1	59·4	51·4	55·1	- 1·6	5	1·34	34	+ 21	*3·6*	—	*22*	*	*	*	*	*	*	*Holyhead.*
p Bettws-y-Coed	148	64	30th	47	30th	60·9	49·7	54·9	- 3·0	7	1·48	38	—	3·1	—	19	*	*	54·6	-0·6	50·7	-1·8	Bettws-y-Coed.
														3·8	—	23	*	*	*	*	*	*	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.		Deviation from Normal.	Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														4·1	—	25	*	*	*	*	*	*	Aberystwyth.
a Llangammarch Wells	550	65	25th	45	27th	60·7	48·0	53·9	− 2·9	6	1·01	26	—	3·3	—	20	0	38	55·9	+0·4	51·5	−0·6	Llangammarch.
a Pembroke	149	59	26th	52	25, 27-30	57·7	52·4	54·9	− 1·8	6	0·94	24	+ 11	6·2	− 1·2	38	*	*	*	*	*	*	Pembroke.
p Cardiff	202	64	25th	48	29th	61·6	50·4	55·6	− 3·8	6	2·62	67	+ 51	*4·3*	—	*26*	0	44	58·1	−0·7	54·1	−2·1	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	67	25th	51	29th	63·3	52·6	57·6	− 2·0	5	1·11	28	+ 13	*3·9*	—	*24*	0	48	*	*	*	*	*Clifton.*
a Shaftesbury	722	64	25, 27	46	29th	60·7	48·7	54·3	− 3·4	3	0·75	19	+ 5	*	*	*	*	*	57·2	*	54·8	*	Shaftesbury.
a Arlington	613	64	25th	47	27, 29	60·7	48·6	54·2	− 2·1	7	1·67	42	+ 22	*	*	*	*	*	*	*	*	*	Arlington.
a Newquay	*190*	*63*	*25th*	*42*	*25th*	*59·7*	*50·9*	*55·0*	− *3·3*	*3*	*?0·80*	*20*	+ 8	6·1	− 1·0	38	*	*	59·2	*	55·2	*	Newquay.
a Cullompton	202	67	25th	45	29th	64·1	49·4	56·2	− 2·3	7	1·21	31	+ 17	4·0	− 2·4	25	0	40	58·8	*	*	*	Cullompton.
a Portland Bill	19	62	28th	52	26th	59·0	53·1	55·8	− 2·1	3	0·35	9	—	*5·0*	—	*31*	*	*	*	*	*	*	*Weymouth.*
p Plymouth	116	64	27, 30	47	25th	62·4	51·9	56·8	− 2·8	6	0·92	23	+ 9	5·5	− 1·4	34	*	*	59·9	−1·2	55·6	*	Plymouth.
a Falmouth	167	62	25, 30	44	25th	60·9	51·0	55·6	− 2·9	6	0·82	21	+ 7	5·5	− 1·9	34	0	35	59·7	*	57·4	*	Falmouth.
9. IRELAND, N.																							
a Malin Head	208	58	30th	48	29th	56·4	49·9	52·9	− 1·9	3	0·31	8	− 6	*5·5*	—	*32*	*	*	*	*	*	*	*Malin Head.*
a, West .. *a* Blacksod Point ..	?	61	29th	47	29, 30	57·9	48·4	52·8	− 3·6	5	0·56	14	− 2	*	*	*	*	*	*	*	*	*	*
p Markree Castle ..	122	64	30th	38	1st	61·0	46·4	53·2	− 2·4	5	1·07	27	+ 9	2·4	− 2·8	14	0	35	57·7	*	52·8	*	Markree Castle.
a Birr Castle	175	65	26th	45	25th	60·7	48·1	54·0	− 3·2	5	1·30	33	+ 19	*3·3*	− *2·1*	*20*	*	*	*	*	*	*	*Birr Castle.*
b, East .. *p* Armagh	196	66	26th	44	29th	62·4	48·1	54·8	− 1·6	4	0·67	17	+ 2	2·5	− 3·0	15	0	35	58·1	0·0	53·8	−0·9	Armagh.
a Donaghadee	101	63	30th	47	1st	57·6	49·3	53·2	− 2·8	5	0·95	24	+ 10	*	*	*	0	39	58·3	0·0	54·9	−0·4	Trinity Coll.
10. IRELAND, S.														2·7	− 3·7	16	0	34	*	*	*	*	Phœnix Park.
p Dublin, City	47	64	25, 26	49	29, 1	61·4	51·3	56·0	− 3·2	6	1·41	36	+ 24	*	*	*	0	45	*	*	*	*	Dublin City.
a, East .. *a* Kilkenny	212	68	26th	47	25, 29	63·4	49·7	56·1	− 2·1	5	1·31	33	+ 19	*	*	*	*	*	*	*	*	*	*
a Waterford	20	69	26th	47	25th	63·3	50·9	56·7	− 1·7	5	0·94	24	+ 7	*	*	*	*	*	*	*	*	*	*
a Seskin, Carrick-on-Suir	*541*	*68*	*26th*	*44*	*25th*	*61·7*	*47·3*	*54·0*	—	*5*	*1·03*	*26*	—	*4·7*	—	*28*	0	43	*	*	*	*	*Seskin.*
b, West .. *a* Birr Castle	175	65	26th	45	25th	60·7	48·1	54·0	− 3·2	5	1·30	33	+ 19	3·3	− 2·1	20	*	*	*	*	*	*	Birr Castle.
a Foynes	50	64	25th	47	30th	60·6	49·7	54·8	− 3·2	7	1·30	33	+ 18	*	*	*	*	*	*	*	*	*	*
a Cahir	199	68	26th	41	25th	62·9	47·6	54·7	− 3·1	6	1·45	37	—	*	*	*	*	*	*	*	*	*	*
a Killarney	174	67	27th	47	25, 30	63·0	49·5	55·8	− 1·6	5	0·92	23	+ 6	*	*	*	*	*	*	*	*	*	*
a Valencia	30	63	25th	47	25th	59·7	50·7	54·9	− 2·6	7	0·85	22	+ 2	4·5	− 1·5	27	*	*	*	*	*	*	Valencia.
a Roche's Point	32	62	25, 27, 1	49	28th	60·1	51·1	55·3	− 2·4	6	0·92	23	+ 7	7·1	—	43	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	65	27th	44	26th	61·1	51·3	55·9	− 3·0	6	0·67	17	+ 6	7·3	− 0·7	45	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	67	1st	46	1st	62·6	52·1	57·0	− 3·0	3	0·16	4	− 8	4·2	− 3·9	26	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	65	1st	50	25th	62·7	52·4	57·2	− 2·3	3	0·38	10	− 2	4·7	− 3·5	29	0	43	60·3	−0·9	57·7	−0·5	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, July 1st, 1916.

DISTRICT AND STATION	Height. Above Mean Sea Level.	Height. Above Ground.	Height. Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Gales, force 8 or more. Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	High Winds, forces 6 and 7. Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.	Date and Hour, G.M.T.	Highest Gust with Date and Time, G.M.T.
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	m/s.		m/s. d. h. m.
1. SCOTLAND, E.														
Dyce	305	75	‡15**	—	—	—	—	1	85	82	0	— 6	29th 7h.	13 28th 23 . 42
Aberdeen*	153	105	37 †	—	—	—	—	30	80	58	0	NW. by W. 9	29th 6h.	14 29th 6 . 28
			52 †											
Edinburgh	485	39	31	—	—	25th	1	48	100	19	0	WSW. 11	25th 14h.	17 25th 13 . 36
6. SCOTLAND, W.														
Eskdalemuir	850	50	22	—	—	25th	3	51	77	37	0	WSW. 11	25th 17h.	16 25th 16 . 51
Paisley	188	81	52	—	—	—	—	13	114	41	0	WNW. 8	25th 9h.	16 25th 9 . 30
2. ENGLAND, N.E.														
Alnwick Castle	340	70	17	—	—	—	—	18	103	46	1	SW. by W. 8	25th 3h.	16 25th 11 . 7
South Shields	72	61	12	—	—	—	—	75	84	9	0	W. 10	25th 13h.	16 25th 13 . 53
Spurn Head	66	40	‡	—	—	—	—	57	85	26	0	— 10	30th 11h.	14 1st 14 . 22
3. ENGLAND, E.														
Gorleston	52	42	‡	—	—	1st	5	53	105	5	0	— 12	1st 14h.	15 30th 15 . 41
Shoeburyness	103	90	‡	—	—	29 to 1	7	70	53	38	0	SW. 12	1st 19h.	15 1st 18 . 43
4. MIDLAND COUNTIES.														
Benson	270	84	‡	—	—	—	—	38	93	37	0	S. 10	1st 12h.	16 1st 11 . 40
5. ENGLAND, S.E.														
Dover	271	40	‡	—	—	29, 30	8	55	73	32	0	— 12	30th 5h.	17 30th 5 . 5
Warlingham	642	33	‡	—	—	—	—	32	23	13	0	— 8	29th 15h.	15 29th 14 . 50
Brighton	261	53	6	—	—	—	—	40	111	17	0	— 9	30th 2h.	17 30th 1 . 42
Kew Observatory ..	82	65	6 †	—	—	—	—	25	121	22	0	SSW. 8	1st 16h.	16 30th 14 . 37
			22 †											
South Kensington ..	123	92	30	—	—	—	—	6	137	25	0	SW. by S. 6	1st 14h.	13 30th 14 . 13
7. ENGLAND, N.W.														
Carnforth	246	56	23	—	—	—	—	12	60	96	0	SSW. 7	1st 19h.	14 1st 18 . 12
Southport	80	62	48	—	—	28, 30, 1	14	75	67	12	0	SW. by W. 14	1st 19h.	21 1st 15 . 25
Holyhead*	60	40	‡	—	—	1st	5	141	21	1	0	WSW. 17	1st 14h.	24 1st 14 . 3
8. ENGLAND, S.W.														
Pendennis Castle§ ..	256	65	24	1st	1	29, 1	24	89	38	16	0	SW. 18	1st 12h.	23 1st 11 . 48
Plymouth	185	88	2	—	—	29, 1	11	58	71	28	0	— 14	29th 16h.	19 29th 15 . 50
Lyme Regis	556	61	‡	—	—	—	—	48	76	44	0	— 10	29th 19h.	15 29th 19 . 16
10. IRELAND, S.														
Quilty	100	40	‡	—	—	27, 1	5	81	76	6	0	— 11	27th 18h.	15 1st 13 . 13
Weaver Pt.	160	30	‡	—	—	—	—	73	95	0	0	— 10	26th 24h.	14 26th 24 . 5
11. ENGLISH CHANNEL.														
Scilly*	150	32	‡	—	—	30, 1	3	114	28	21	2	WNW. 13	30th 1h.	18 30th 0 . 55
		19												

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

** Above tops of trees.

‡ Standard mounting.

§ Direction from the Robinson Anemometer at Falmouth Observatory.

† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

TWENTY-SIXTH WEEK—June 25th to July 1st, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
			Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.				Deviation from Normal.				
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	64	43	86·4	82·2	84·2	− 1·2	71	− 15	0	0	5	+ 1	0·59	15	− 4	0·9	−3·7	5	1009
Eastern.																			
1. SCOTLAND, EAST ...	65	35	87·7	81·2	84·2	− 2·1	71	− 27	0	0	5	+ 2	0·83	21	+ 7	1·8	−4·2	11	1007
2. ENGLAND, N.E.	68	41	89·4	82·3	85·6	− 1·6	89	− 20	0	0	4	+ 2	0·46	12	+ 1	3·3	−3·2	20	1009
3. ENGLAND, EAST ...	75	44	90·9	83·2	86·8	− 1·5	104	− 19	0	0	4	+ 2	0·44	11	+ 2	3·5	−3·8	21	1011
4. MIDLAND COUNTIES ...	69	42	90·1	82·4	86·0	− 2·1	94	− 27	0	0	5	+ 2	0·64	16	+ 4	3·2	−3·4	19	1010
5. ENGLAND, S.E.	70	40	90·7	83·3	86·7	− 2·0	103	− 24	0	0	4	+ 1	0·63	16	+ 7	4·2	−3·3	26	1011
Western.																			
6. SCOTLAND, WEST ...	66	38	88·6	82·1	85·1	− 1·7	83	− 21	0	0	5	+ 2	0·90	23	+ 5	2·9	−3·2	17	1008
7. ENGLAND, N.W.	66	44	88·8	83·3	85·8	− 1·8	92	− 22	0	0	5	+ 1	0·91	23	+ 8	3·4	−3·0	20	1010
8. ENGLAND, S.W.	67	44	89·2	83·3	86·1	− 1·8	95	− 23	0	0	6	+ 4	1·14	29	+ 16	5·0	−2·0	30	1012
9. IRELAND, NORTH ...	66	38	88·2	82·1	84·9	− 2·0	81	− 25	0	0	5	+ 1	0·81	21	+ 5	2·5	−2·6	15	1010
10. IRELAND, SOUTH ...	69	41	89·5	82·9	86·0	− 1·7	94	− 21	0	0	6	+ 3	1·16	29	+ 14	4·4	−1·2	27	1012
11. ENGLISH CHANNEL ...	67	44	89·7	84·1	86·7	− 1·7	103	− 21	0	0	4	+ 1	0·40	10	0	5·4	−3·0	34	1014

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 4 Weeks June 4th to July 1st, 1916.

0. SCOTLAND, NORTH ...	73	35	86·3	80·4	83·2	− 1·4	232	− 74	0	− 2	16	+ 1	2·54	65	− 2	3·2	−2·0	18	1012
Eastern.																			
1. SCOTLAND, EAST ...	72	30	87·2	79·6	83·2	− 2·1	234	−109	2	+ 1	16	+ 4	3·43	87	+ 35	3·5	−2·5	20	1011
2. ENGLAND, N.E.	72	32	87·8	80·7	84·0	− 2·0	273	−101	0	0	15	+ 4	2·03	51	+ 8	3·7	−2·6	22	1012
3. ENGLAND, EAST ...	75	36	88·7	81·2	84·7	− 2·3	310	−116	0	0	18	+ 7	2·44	62	+ 16	4·3	−2·6	26	1013
4. MIDLAND COUNTIES ...	72	34	89·0	80·6	84·6	− 2·4	302	−122	0	0	14	+ 3	1·81	46	− 2	3·9	−2·3	24	1013
5. ENGLAND, S.E.	70	35	89·1	81·4	85·0	− 2·5	322	−129	0	0	16	+ 5	2·16	56	+ 12	5·3	−1·7	32	1013
Western.																			
6. SCOTLAND, WEST ...	74	32	88·8	80·5	84·4	− 1·7	293	− 84	0	0	14	+ 1	1·88	48	− 19	6·2	−0·2	36	1012
7. ENGLAND, N.W.	74	37	88·1	81·7	84·6	− 2·0	308	− 96	0	0	13	0	2·31	58	+ 5	5·3	−1·3	31	1013
8. ENGLAND, S.W.	71	35	88·6	81·4	84·7	− 2·3	312	−114	0	0	15	+ 3	2·57	65	+ 11	6·2	−0·7	38	1014
9. IRELAND, NORTH ...	73	35	87·6	80·9	84·0	− 2·1	276	−100	0	0	14	− 1	1·81	46	− 16	5·4	−0·2	32	1014
10. IRELAND, SOUTH ...	75	35	89·3	81·8	85·3	− 1·6	338	− 80	0	0	16	+ 3	2·64	67	+ 8	6·6	+0·5	40	1015
11. ENGLISH CHANNEL ...	68	40	88·7	82·9	85·6	− 1·9	357	− 91	0	0	13	0	1·16	29	− 12	6·6	−1·5	41	1016

THE YEAR.—Aggregates, &c., for the Period of 26 Weeks, January 2nd to July 1st, 1916.

0. SCOTLAND, NORTH ...	76	20	82·0	76·3	79·1	− 0·1	651	−103	454	−103	131	+12	28·84	731	+135	2·9	−0·6	23	1008
Eastern.																			
1. SCOTLAND, EAST ...	77	7	82·4	75·7	78·9	− 0·4	701	−173	585	− 35	117	+21	20·05	511	+174	3·3	−0·8	26	1009
2. ENGLAND, N.E.	81	20	83·6	77·0	80·2	+ 0·3	936	+ 10	379	− 96	102	+14	13·23	336	+ 76	3·5	−0·8	28	1011
3. ENGLAND EAST ..	83	24	84·4	77·4	80·7	+ 0·4	1094	− 23	353	−168	103	+17	14·30	361	+104	3·9	−0·6	31	1012
4. MIDLAND COUNTIES ...	83	21	84·4	76·8	80·5	+ 0·1	1062	− 81	405	−128	100	+15	14·63	373	+ 79	3·4	−0·7	27	1012
5. ENGLAND, S.E.	80	15	84·9	77·8	81·2	+ 0·1	1195	− 23	291	− 87	103	+21	15·00	381	+ 94	4·2	−0·3	34	1013
Western.																			
6. SCOTLAND, WEST ...	77	17	83·3	76·9	80·0	− 0·2	865	−104	365	− 60	118	+16	21·41	546	+ 27	3·9	−0·2	31	1010
7. ENGLAND N.W.	79	8	83·7	77·7	80·6	+ 0·1	933	− 45	310	− 76	107	+13	17·46	444	+ 80	3·7	−0·4	29	1012
8. ENGLAND, S.W.	79	17	84·2	78·0	81·0	− 0·2	1091	−100	279	− 22	110	+18	19·33	495	+ 82	4·2	−0·4	34	1013
9. IRELAND NORTH ...	76	18	83·4	77·1	80·2	− 0·4	885	−151	334	− 11	125	+15	19·52	498	+ 79	3·7	−0·2	29	1011
10. IRELAND, SOUTH ...	77	20	84·5	78·0	81·1	− 0·4	1111	−126	244	− 15	132	+33	19·74	499	+ 46	4·2	−0·2	33	1013
11. ENGLISH CHANNEL ...	79	30	84·9	79·9	82·3	− 0·1	1330	− 37	85	− 24	110	+10	15·63	394	+ 50	4·8	−0·7	39	1014
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	m.m.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., July 6th, 1916.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 105

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 27. SUNDAY, JULY 2ND, TO SATURDAY, JULY 8TH, 1916. *Price 6d., Post free 7d. Annual Subscription Post Paid £1 10s. 0d.*

I.—THE TWENTY-SEVENTH WEEK OF 1916.

The week as a whole was cool, very cloudy and rainy. In England South-East and South-West rain was less frequent than elsewhere, and the total fall was only moderate in some other districts. The chief feature in the rainfall was an abnormal quantity in the east of Scotland on the 7th, and the aggregate fall for that district was more than four times the normal. At Leith 69 mm. fell on the 7th followed by 17 mm. on the 8th, and at Kirkcaldy, where rain was continuous for 36 hours from 1 h. on the 7th, the figure was 99 mm. These downpours were unaccompanied by thunder, but thunderstorms, without large quantities of rain, were experienced in many parts of the Kingdom on different days of the week. Temperature was, as during the five weeks immediately preceding, below the normal in all districts. As a rule the deviation was about 1°·5 A. (2°·7 F.), but in Ireland North and Scotland East it was greater. On the 4th and 5th the maxima were above 294° A. (70° F.) in various parts of England, but over the greater part of the Kingdom the daily maximum readings were very low for the time of year; below 290° A. at several Scottish stations. On the 7th the maximum at Balmoral was only 282°·5 A. (49° F.) and at West Linton on the 8th 283°·5 A. (51° F.). The nights were relatively warmer than the days, but at West Linton on the 6th the screened minimum was 273°·5 A. (33° F.) and the grass minimum 269°·5 A. (26° F.). At Hampstead and Rothamsted the respective grass minima on the 2nd were 272°·5 A. (31° F.) and 273° A. (32° F.). Bright sunshine was either scanty or very scanty in almost all districts. In Scotland East the mean daily deviation from normal was 4·5 hours, and over a very large portion of the Kingdom about 3 hours. In Ireland North the deficiency was trifling. The mean daily duration ranged from 7·5 hours in the English Channel and 6·1 hours in England South-East to 1·2 hour in Scotland East. The temperature of the sea surface water was a little above the normal at Cleggan and Plymouth, but as much as 2°·8 A. (5° F.) below it at Wick, and a little below on most other parts of the coast.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.
		m/s		m/s		m/s		m/s		m/s		m/s		m/s		m/s
South	2	1·4	1	0·9	4	2·4	6	1·9	4	2·2	2	3·5	3	1·9	2	1·6
North	5	2·8	6	6·3	2	1·1	1	0·8	3	2·7	4	2·5	4	2·3	5	3·0
West	2	1·0	2	2·4	3	2·4	6	1·4	5	2·6	6	3·0	3	4·3	4	3·2
East	3	2·3	4	4·1	4	2·1	¼	1·0	1	2·0	¼	0·6	4	1·8	2	1·9
Calm	0	—	0	—	0	—	0	—	0	—	0	—	0	—	¼	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ... Warmth ...	Deficient	Very deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Very deficient	Deficient	Very deficient
Rainfall ...	Heavy	Very heavy	Heavy	Moderate	Heavy	Moderate	Heavy	Moderate	Heavy	Moderate	Heavy	Heavy
Sunshine ...	Very scanty	Very scanty	Very scanty	Scanty	Very scanty	Scanty	Very scanty	Very scanty	Scanty	Moderate	Scanty	Moderate

II.—THE SUMMER SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SUMMER. 5 weeks from June 4th, 1916.												
Warmth ...	0, 1, 4	0, 0, 5	0, 0, 5	0, 0, 5	0, 0, 5	0, 0, 5	0, 0, 5	0, 1, 4	0, 0, 5	0, 1, 4	0, 1, 4	0, 0, 5
Rainfall ...	2, 2, 1	4, 0, 1	2, 3, 0	2, 3, 0	2, 2, 1	2, 3, 0	2, 2, 1	2, 2, 1	3, 1, 1	0, 4, 1	3, 1, 1	1, 3, 1
Sunshine ...	0, 2, 3	1, 0, 4	0, 0, 5	0, 1, 4	0, 0, 5	0, 1, 4	1, 1, 3	1, 0, 4	0, 2, 3	1, 1, 3	1, 1, 3	0, 2, 3

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.

Increment of 1° A. = increment of $\frac{9}{5}$° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(8641—19.) Wt. 79a—736. 450. 7/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880. GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts	Lowest Reading.	Mean	Deviation from Average.	Mean.	Deviation from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.																							
a, Islands .. *p Baltasound*	*31*	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	*Baltasound.*
a Lerwick ..	56	7th	45	3, 4	52·7	46·1	49·2	− 1·9	4	0·91	23	—	1·4	− 3·3	8	*	*	*	*	*	*	Deerness.
a Stornoway	51	7th	44	5–7	55·3	46·3	50·5	− 2·8	5	0·88	22	+ 6	1·7	− 3·9	10	*	*	*	*	*	*	Stornoway
a Castlebay, Barra Isd. ..	*37*	*61*	*3rd*	*46*	*5th*	*56·1*	*48·6*	*52·1*	*− 1·5*	*4*	*0·75*	*19*	—	*4·5*	—	*26*	*	*	*	*	*	*	*Castlebay.*
b, Mainland. *a* Wick ..	81	53	5, 6, 8	44	5th	52·0	46·9	49·3	− 4·2	5	0·53	13	− 1	*	*	*	*	*	*	*	*	*	
p Strathpeffer ..	200	61	4th	43	6th	59·6	47·0	52·9	− 2·4	6	2·34	59	+ 45	1·0	− 3·8	6	*	*	*	*	*	*	Strathpeffer.
p Glencarron ..	500	61	3rd	41	6th	57·0	46·3	51·3	− 2·2	4	1·22	31	+ 3	*	*	*	*	*	*	*	*	*	
p Fort Augustus..	68	59	3rd	47	7th	56·0	49·1	52·3	− 2·9	7	1·84	47	+ 32	1·3	− 2·7	7	*	*	*	*	*	*	Fort Augustus.
p Fort William ..	171	64	5th	42	7th	59·3	48·1	53·3	− 2·6	6	1·60	41	+ 16	*	*	*	*	*	*	*	*	*	
1. SCOTLAND, E.																							
p Gordon Castle ..	101	60	6th	43	6th	56·1	47·4	51·5	− 4·8	6	1·50	38	+ 23	0·4	—	2	0	43	55·2	−1·8	51·5	−1·3	Crathes.
a Nairn ..	82	60	5th	47	5, 6	56·7	48·6	52·4	− 3·1	5	2·13	54	+ 41	*0·9*	—	*5*	*	*	*	*	*	*	*Gordon Castle.*
a Aberdeen	46	59	3rd	48	5, 6	56·6	49·0	52·5	− 1·7	6	1·61	41	+ 27	1·1	—	6	*	*	*	*	*	*	Nairn.
a Balmoral	930	59	2nd	36	2nd	55·0	43·6	48·9	− 4·8	7	2·71	69	+ 55	1·2	− 4·5	7	*	*	*	*	50·2	−1·4	Aberdeen.
p Crieff ..	432	64	4, 6	46	2, 5–8	58·0	46·3	51·7	− 5·4	7	3·91	99	+ 82	*	*	*	0	35	*	*	*	*	Balmoral.
														1·2	—	7	*	*	*	*	*	*	Balruddery.
a Leith	18	61	4, 6	44	6th	57·9	48·6	52·9	− 4·3	7	4·41	112	+ 99	*	*	*	*	*	*	*	*	*	
a West Linton ..	769	60	3, 4	33	6th	55·6	44·3	49·6	− 4·0	5	3·07	78	—	*1·4*	—	*8*	1	26	*	*	*	*	*West Linton.*
p Marchmont ..	498	61	4th	40	6th	57·3	46·6	51·6	− 3·9	5	3·02	77	+ 61	1·4	− 4·5	8	0	36	*	*	*	*	Marchmont.
a Edinburgh ..	*441*	*63*	*4th*	*45*	*4, 6*	*55·9*	*47·4*	*51·4*	—	*5*	*3·82*	*97*	—	2·0	—	12	0	41	*	*	*	*	Edinburgh.
6. *a*, SCOTLAND, W.																							
a Poltalloch ..	132	64	3rd	47	7th	60·0	49·6	54·4	− 2·8	3	1·02	26	+ 5	*	*	*	*	*	*	*	*	*	
p Glasgow Observatory	180	64	3rd	44	6th	58·7	49·0	53·5	− 3·0	6	2·15	55	+ 38	1·3	− 3·8	8	0	34	*	*	*	*	Glasgow.
p Rothesay ..	170	63	4th	45	6, 7	59·3	47·3	52·9	− 4·5	6	0·87	22	+ 1	*2·4*	—	*14*	0	40	56·4	*	53·0	−1·0	*Rothesay.*
a Kilmarnock ..	90	69	6th	42	6th	62·1	48·1	54·6	− 2·6	5	1·91	49	—	*1·9*	—	*11*	*	*	56·0	*	52·7	*	*Kilmarnock.*
a Colmonell ..	170	63	4th	37	6th	59·9	46·9	53·0	− 3·8	6	1·27	32	+ 15	*	*	*	0	34	*	*	*	*	
a Dumfries ..	160	65	4, 5	43	6th	61·1	48·6	54·1	− 3·9	5	1·57	40	+ 23	*2·1*	—	*12*	0	35	56·9	*	55·0	*	*Dumfries.*
Eskdalemuir ..	*799*	*64*	*4th*	*33*	*6th*	*57·1*	*44·9*	*50·6*	—	*6*	*3·31*	*84*	—	*1·3*	—	*8*	*	*	*	*	*	*	*Eskdalemuir.*
p Cally, Gatehouse	120	66	4th	44	6th	61·3	46·7	53·5	− 3·6	5	1·80	46	+ 27	*	*	*	*	*	*	*	*	*	
b, I. OF MAN. *p* Douglas ..	277	64	4, 5	47	6th	60·3	49·6	54·6	− 1·6	4	1·13	29	+ 13	4·0	− 2·9	24	0	43	*	*	*	*	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle ..	210	61	4–6	40	6th	58·0	47·9	52·6	− 3·4	5	1·67	42	+ 28	1·9	—	11	0	39	54·2	−2·8	51·6	−1·8	Cockle Park.
a Tynemouth ..	71	63	8th	48	4, 6	57·9	49·9	53·6	− 2·7	4	0·79	20	+ 7	*	*	*	*	*	*	*	*	*	Tynemouth
a Durham ..	336	67	5th	45	6th	62·3	48·6	55·0	− 2·2	4	0·46	12	− 2	2·9	− 2·7	17	0	41	*	*	*	*	Durham.
a North .. *p* Rounton ..	249	66	5th	46	6th	63·6	49·6	56·1	− 0·8	4	0·33	8	− 5	*	*	*	0	42	56·5	*	*	*	Rounton.
a West Witton ..	*605*	*63*	*3–5, 8*	*44*	*3rd*	*61·3*	*48·0*	*54·2*	—	*5*	*1·14*	*29*	—	*	*	*	0	42	55·2	*	50·8	*	*West Witton.*
p Scarborough† ..	100	68	8th	48	4–6	62·6	49·4	55·5	− 1·9	3	0·89	23	+ 11	3·0	—	18	*	*	*	*	53·0	*	Scarborough.
p York ..	56	66	5th	45	6th	63·6	50·7	56·7	− 2·2	2	0·24	6	− 7	3·6	− 2·2	22	*	*	57·0	−0·6	54·0	−0·2	York.
b, South .. *a* Spurn Head ..	26	64	2nd	48	5th	60·3	50·9	55·3	− 2·6	4	0·27	7	− 2	*2·2*	—	*13*	*	*	*	*	*	*	*Spurn Head.*
a Lincoln ..	58	68	5th	47	6th	65·2	50·4	57·3	− 2·4	4	0·75	19	+ 7	*	*	*	*	*	57·7	−1·0	54·2	−0·4	Lincoln.
a Fulbeck ..	180	68	5th	45	6th	65·0	50·3	57·1	− 2·3	7	1·24	32	+ 20	3·5	—	21	0	44	58·0	−3·6	53·9	−1·9	Rauceby.
														3·8	—	23	*	*	*	*	*	*	Skegness.
3. ENGLAND, E.																							
p Cromer ..	196	65	2, 6	47	2nd	62·9	51·1	56·6	− 1·9	6	0·63	16	—	4·4	—	27	*	*	*	*	*	*	Cromer.
p Little Massingham ..	280	68	2nd	45	2nd	65·6	49·3	56·9	− 2·3	6	0·41	10	− 4	3·6	− 2·9	22	0	44	*	*	*	*	Lit. Massingham.
a, North .. *a* Yarmouth ..	13	68	2nd	48	2nd	63·7	53·4	58·2	− 0·3	4	0·51	13	0	5·1	—	31	*	*	58·7	−4·3	54·6	−4·7	Yarmouth.
a Norwich ..	93	70	4th	48	2nd	67·1	53·0	59·6	+ 0·5	5	0·42	11	—	*3·0*	—	*18*	0	44	60·2	*	*	*	*Norwich.*
a Geldeston ..	37	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	Geldeston.
b, South .. *p* Cambridge ..	41	71	4th	45	2nd	68·9	50·7	59·2	− 1·0	3	0·15	4	− 9	3·8	− 2·9	23	0	36	59·8	−1·0	55·7	−1·6	Cambridge.
a Clacton-on-Sea ..	54	67	8th	50	2nd	64·9	54·3	59·2	− 0·4	4	0·47	12	—	5·5	—	34	0	46	60·2	+0·9	56·8	−0·8	Clacton.
a Rothamsted ..	424	68	4, 5	42	2nd	65·9	48·7	56·7	− 2·1	3	0·46	12	− 1	4·6	− 2·1	28	0	32	57·5	*	*	*	Rothamsted.
p Tottenham ..	51	72	5th	48	4, 5	67·7	52·4	59·5	− 1·3	4	0·75	19	—	4·7	—	29	0	45	*	*	57·0	−1·2	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate ..	479	62	3, 5, 7	45	6th	61·0	48·4	54·3	− 2·5	3	0·56	14	0	3·5	—	21	0	39	55·0	−0·2	53·3	−0·1	Harrogate.
p Buxton ..	*987*	*63*	*4, 7*	*44*	*6th*	*59·7*	*48·3*	*53·6*	*− 2·8*	*5*	*0·94*	*24*	+ *4*	*3·9*	—	*24*	0	36	55·0	−2·8	50·9	−1·0	*Buxton.*
														3·5	*	21	0	43	55·6	−1·4	52·0	−0·7	Sheffield.
a Bawtry ..	65	66	2, 4, 5	44	6th	64·6	49·6	56·6	− 2·5	3	0·44	11	− 1	3·2	− 2·3	19	0	39	56·8	*	53·8	*	Worksop.
a Nottingham ..	82	67	4, 5, 7	49	6th	64·6	51·4	57·5	− 1·7	4	1·42	36	+ 23	2·9	—	17	0	44	57·1	−1·7	53·9	−1·5	Nottingham.
b, East .. *p* Birmingham, Edgbsn.	535	65	3–5	49	2nd	63·4	51·1	56·8	− 1·7	5	1·11	28	+ 15	2·1	—	13	0	39	53·4	−0·7	50·0	−0·9	Birmingham.
a Raunds ..	203	72	3, 5	45	2, 4	68·9	49·1	58·3	− 1·8	4	0·48	12	—	*3·6*	—	*22*	0	37	60·0	*	54·4	*	*Raunds.*
p Oxford ..	208	70	5, 7	47	4th	67·9	50·7	58·7	− 1·3	3	0·87	22	+ 8	5·0	− 1·5	31	0	41	*	*	*	*	Oxford
c, West .. *a* Cheadle ..	646	66	4th	49	2, 6	62·4	51·6	56·6	− 0·3	5	1·74	44	+ 29	*	*	*	0	47	*	*	*	*	Cheadle.
p Shrewsbury ..	191	67	3rd	49	5, 6	64·6	51·1	57·4	− 1·1	5	0·81	21	—	*	*	*	0	44	*	*	*	*	Shrewsbury.
a Hereford§ ..	291	71	4, 5	45	5th	66·6	48·9	57·1	− 2·3	3	0·74	19	+ 6	*	*	*	0	36	59·4	*	56·1	*	*Malvern.*§
a Bath ..	66	70	5, 7	45	4th	66·9	49·8	57·7	− 1·9	2	0·31	8	− 6	5·2	—	32	*	*	59·9	−1·8	56·9	−1·1	Bath.
5. ENGLAND, S.E.																							
a Marlborough ..	424	71	5th	40	4th	67·1	45·3	55·4	− 3·4	3	0·76	19	+ 4	7·0	—	43	0	43	62·7	+0·1	57·6	−0·2	Worthing.
a Margate ..	53	68	2, 7	50	2nd	66·1	54 0	59·6	− 1·1	3	0·46	12	+ 1	5·8	− 0·3	36	0	33	59·3	*	54·4	*	Marlborough.
a Wisley, Surrey ..	150	74	4th	41	2nd	69·3	49·1	58·5	− 2·8	3	0·51	13	—	5·2	—	32	0	45	62·8	+3·1	59·0	+2·4	Margate.
p Salisbury (Wilton) ..	180	73	5th	42	2nd	68·1	47·6	57·1	− 3·6	2	0·93	24	+ 11	*	*	*	0	36	58·9	−1·7	54·9	−2·4	Wisley.
a Tunbridge Wells ..	354	71	5th	47	2nd	66·3	50·9	58·1	− 1·2	4	0·55	14	+ 1	5·2	− 1·6	32	0	38	61·1	*	*	*	Salisbury.
																	0	37	59·5	−2·5	56·3	*	Tunbridge Wells.
a Dungeness ..	21	65	5th	50	2nd	62·9	53·3	57·8	− 1·5	2	0·28	7	− 3	*	*	*	*	*	*	*	*	*	
p Hastings..	178	68	5th	50	2nd	64·0	53·4	58·3	− 1·2	4	0·52	13	+ 1	*	*	*	0	47	62·9	*	57·6	*	Littlestone.
p Southampton ..	64	74	5th	47	2nd	67·9	52·0	59·4	− 2·0	3	0·60	15	+ 2	8·1	+ 1·0	50	0	37	*	*	*	*	Hastings.
a Ventnor ..	59	66	5, 8	50	2nd	64·1	53·6	58·5	− 2·5	3	0·37	10	− 2	7·8	+ 1·1	48	*	*	*	*	*	*	Southampton.
																							Ventnor.
LONDON. *p* Kew ..	18	72	4th	47	4th	68·2	52·3	59·7	− 0·8	4	0·58	15	+ 2	4·4	− 2·2	27	0	38	59·4	−0·7	55·2	−0·9	Kew.
a Westminster ..	*27*	*72*	*5th*	*48*	*2nd*	*67·9*	*52·9*	*59·9*	*− 1·2*	*5*	*0·69*	*18*	+ *5*	*4·5*	− *1·3*	*28*	0	43	*	*	*	*	*Westminster.*
a Greenwich ..	*155*	*75*	*5th*	*46*	*4th*	*70·1*	*51·3*	*60·1*	*− 1·9*	*5*	*0·91*	*23*	+ *10*	*4·4*	− *2·8*	*27*	0	35	*	*	*	*	*Greenwich.*
a Hampstead ..	*450*	*71*	*5th*	*46*	*2, 4*	*66·1*	*50·1*	*57·5*	—	*4*	*0·72*	*18*	—	*4·0*	—	*25*	0	31	*	*	*	*	*Hampstead.*
a Camden Square ..	*110*	*74*	*5th*	*47*	*2nd*	*70·3*	*52·0*	*60·5*	—	*6*	*1·18*	*30*	—	*3·9*	—	*24*	0	46	*	*	*	*	*Camden Square.*
7. *a*, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	64	4th	42	4th	58·9	48·0	53·1	− 3·0	4	0·84	21	+ 3	3·7	—	22	*	*	*	*	*	*	Hoylake.
p Newton Rigg ..	559	66	3, 4	44	4th	61·3	47·9	54·1	− 1·9	4	1·17	30	+ 15	2·7	—	16	0	43	55·4	*	52·2	*	Aspatria.
p Stonyhurst ..	375	66	4th	45	6th	60·4	50·0	54·8	− 3·4	4	0·76	19	− 1	2·7	− 3·6	16	0	39	56·7	−1·8	52·8	−0·8	Newton Rigg.
p Blackpool ..	66	66	4th	45	6th	62·1	50·7	56·0	− 2·0	3	0·41	10	− 4	2·1	− 4·1	13	0	41	*	*	*	*	Stonyhurst.
a Southport ..	37	64	3rd	46	6th	61·7	50·9	55·9	− 2·1	3	0·22	6	− 8	3·7	− 2·6	22	0	37	59·2	*	54·4	*	Blackpool.
a Liverpool (Bidston) ..	188	63	6th	50	8th	60·9	51·9	56·1	− 3·1	5	0·67	17	+ 3	4·1	− 2·5	25	0	40	60·1	−2·0	57·9	−0·7	Southport.
a Hawarden Bridge ..	22	66	4th	53	3rd	62·9	54·4	58·4	− 0·6	4	0·57	15	+ 3	*3·5*	—	*21*	*	*	*	*	*	*	*Liverpool.*
p Manchester (Whit. Pk.)	125	65	3rd	49	6th	63·0	51·9	57·1	− 2·0	4	0·71	18	+ 4	*2·9*	—	*17*	0	42	57·9	−0·4	56·4	+0·7	*Manchester (City).*
														2·8	*− 2·3*	*17*	*	*	*	*	*	*	*„ (Whit. Park).*
b, NORTH WALES.																							
p Llandudno ..	71	64	4th	50	5th	61·4	§52·0	56·4	− 2·2	5	0·78	20	+ 8	4·6	− 0·9	28	*	*	*	*	*	*	Llandudno.
a Holyhead ..	15	64	4th	50	2, 4	60·4	51·7	55·8	− 1·4	3	0·75	19	+ 5	*5·0*	—	*30*	*	*	*	*	*	*	*Holyhead.*
p Bettws-y-Coed ..	148	65	4th	42	2nd	61·4	48·1	54·3	− 4·6	6	1·10	28	—	1·9	—	11	*	*	55·0	−1·2	51·4	−1·4	Bettws-y-Coed.
														4·9	—	30	*	*	*	*	*	*	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.							Rainfall.			Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.									Grass Min.		Earth 1 ft		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	Daily Mean	Deviation from Normal.	Percentage of possible duration.	Ground Frosts.	Lowest Reading.	Mean.	Deviation from average.	Mean.	Deviation from average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr. min.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														4·1	—	25	•	•	•	•	•	•	
a Llangammarch Wells	550	67	5th	46	5th	62·9	50·3	56·2	- 0·9	5	1·48	38	—	3·7	—	23	0	42	56·7	+0·6	52·0	-0·6	Aberystwyth. Llangammarch.
a Pembroke	149	60	7th	50	5, 6, 8	58·7	51·9	55·1	- 2·1	5	0·53	14	+ 1	4·6	- 2·6	28	•	•	•	•	•	•	Pembroke.
p Cardiff	202	67	4, 5	49	5, 8	64·4	50·9	57·2	- 2·7	3	1·16	29	+ 12	*5·8*	—	*36*	0	44	59·1	-1·1	54·7	-2·1	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	69	5, 7	49	4th	66·3	52·4	58·9	- 1·5	1	0·51	13	- 2	*6·5*	—	*40*	0	47	•	•	•	•	*Clifton.*
a Shaftesbury	722	69	5th	45	2nd	64·1	49·1	56·1	- 2·3	3	1·35	34	+ 20	•	•	•	•	•	58·6	•	55·2	•	Shaftesbury.
a Arlington	613	65	5, 7	48	4th	61·3	50·3	55·4	- 1·5	4	1·75	44	+ 23	•	•	•	•	•	•	•	•	•	Arlington.
a Newquay	*190*	*63*	*8th*	*48*	*4th*	*61·1*	*52·1*	*56·3*	- *2·7*	*2*	*0·50*	*13*	*0*	6·4	- 0·6	40	•	•	60·4	•	55·8	•	Newquay.
a Cullompton	202	70	5th	43	2nd	66·6	47·7	56·5	- 2·7	4	0·72	18	+ 3	5·1	- 1·2	32	0	39	58·9	•	•	•	Cullompton.
a Portland Bill	19	62	8th	52	2nd	60·0	53·7	56·6	- 2·1	1	0·35	9	—	*9·9*	—	*61*	•	•	•	•	•	•	*Weymouth.*
p Plymouth	116	68	5th	50	3rd	63·3	52·9	57·7	- 2·1	3	0·89	23	+ 9	6·2	- 0·6	38	•	•	60·9	-1·8	56·2	•	Plymouth.
a Falmouth	167	66	5, 7	49	5th	63·7	51·9	57·4	- 1·6	5	1·04	26	+ 11	8·1	+ 0·8	50	0	41	61·7	•	58·1	•	Falmouth.
9. IRELAND, N.																							
a, West .. { *a* Malin Head	208	60	2nd	47	5, 6	57·0	49·3	52·9	- 2·6	2	0·25	6	- 9	*8·1*	—	*48*	•	•	•	•	•	•	*Malin Head.*
a Blacksod Point ..	†	60	2nd	47	5, 7, 8	58·1	48·4	52·9	- 3·7	4	0·15	4	- 12	•	•	•	•	•	•	•	•	•	•	•
p Markree Castle ..	122	64	2, 4	41	4th	61·3	45·9	53·1	- 2·7	6	0·65	17	- 1	7·1	+ 1·3	42	0	37	58·2	•	53·4	•	Markree Castle.
a Birr Castle	175	64	4, 7	45	8th	61·7	48·4	54·6	- 3·0	5	1·26	32	+ 17	*3·5*	*- 1·5*	*21*	•	•	•	•	•	•	*Birr Castle.*
b, East .. { *p* Armagh	196	66	4th	44	4, 8	62·1	46·3	53·7	- 3·0	3	0·19	5	- 11	2·4	- 2·8	14	0	36	57·4	-1·8	54·2	-1·1	Armagh.
a Donaghadee	101	60	4th	47	6th	57·0	49·3	52·9	- 3·6	3	0·69	18	+ 3	•	•	•	•	•	•	•	•	•	•
10. IRELAND, S.														•	•	•	0	42	58·1	-1·4	55·0	-0·8	Trinity Coll.
p Dublin, City	47	63	3, 4	47	8th	61·0	51·7	56·0	- 3·7	5	0·90	23	+ 10	3·5	- 2·6	21	0	36	•	•	•	•	Phœnix Park.
a, East .. { *a* Kilkenny	212	66	4th	46	8th	62·7	49·1	55·4	- 3·5	6	1·26	32	+ 17	•	•	•	0	44	•	•	•	•	Dublin City.
a Waterford	20	65	4-6	47	8th	63·9	51·3	57·2	- 1·5	5	0·93	24	+ 6	•	•	•	•	•	•	•	•	•	•
a Seskin, Carrick-on-Suir	*541*	*65*	*4th*	*44*	*8th*	*63·0*	*48·7*	*55·4*	—	*6*	*0·52*	*13*	—	*3·4*	—	*21*	0	42	•	•	•	•	*Seskin.*
b, West .. { *a* Birr Castle	175	64	4, 7	45	8th	61·7	48·4	54·6	- 3·0	5	1·26	32	+ 17	3·5	- 1·5	21	•	•	•	•	•	•	Birr Castle.
a Foynes	50	65	4th	50	5, 8	61·9	51·0	56·1	- 2·0	6	1·11	28	+ 13	•	•	•	•	•	•	•	•	•	•
a Cahir	199	69	8th	44	5, 8	65·3	49·0	56·6	- 1·8	6	1·14	29	—	•	•	•	•	•	•	•	•	•	•
a Killarney	174	69	4, 6	45	5th	65·1	50·8	57·5	- 0·2	6	1·07	27	+ 9	•	•	•	•	•	•	•	•	•	•
a Valencia	30	64	6th	48	5th	61·1	51·6	56·0	- 1·6	5	0·32	8	- 13	5·6	0·0	34	•	•	•	•	•	•	Valencia.
a Roche's Point ..	32	66	7th	49	8th	62·3	52·1	56·8	- 1·3	6	1·02	26	+ 10	4·6	—	28	•	•	•	•	•	•	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	64	5, 7	51	4th	62·4	53·0	57·4	- 2·3	3	0·60	15	+ 3	8·4	+ 0·7	53	•	•	•	•	•	•	Scilly.
a Jersey, St. Aubins ..	25	65	4, 8	49	3rd	63·4	53·7	58·2	- 2·5	2	0·35	9	- 4	6·9	- 1·1	43	•	•	•	•	•	•	St. Heliers.
a Guernsey (Villa Carey)	180	67	8th	47	4th	63·3	52·9	57·7	- 2·5	3	0·80	20	+ 8	7·2	- 1·0	45	0	41	60·9	-0·8	58·6	-0·1	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, July 8th, 1916.

DISTRICT AND STATION	Height.			Distribution of Wind.								Extreme Velocities.				
	Above Mean Sea Level.	Above Ground.	Above Building.	Gales, force 8 or more.		High Winds, forces 6 and 7.		Fresh or Moderate Winds, forces 4 and 5.	Light Winds, forces 2 and 3.	Calms and Light Airs, forces 0 and 1.	No Record.	Highest Hourly Wind.			Highest Gust with Date and Time, G.M.T.	
				Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Velocity.		Date and Hour, G.M.T.		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.		m/s.	d. h. m.
1. SCOTLAND, E.																
Dyce	305	75	‡15**	—	—	—	—	—	104	64	0	—	5	8th 9h.	11	8th 8 . 48
Aberdeen*	153	105	37 †	—	—	—	—	31	91	46	0	NE.	7	8th 13h.	11	8th 2 . 34
			52 †													
Edinburgh	485	39	31	—	—	—	—	11	108	49	0	NE. by E.	7	8th 11h.	11	8th 11 . 0
6. SCOTLAND, W.																
Eskdalemuir	850	50	22	—	—	—	—	1	89	78	0	ENE.	6	3rd 18h.	9	3rd 18 . 2
Paisley	188	81	52	—	—	—	—	—	119	49	0	NE. by E.	5	8th 12h.	10	8th 12 . 55
2. ENGLAND, N.E.																
Alnwick Castle	340	70	17	—	—	—	—	—	—	—	—	—	—	—	—	—
South Shields	72	61	12	—	—	—	—	27	69	72	0	WNW.	9	8th 15h.	14	8th 14 . 40
Spurn Head	66	40	‡	—	—	—	—	19	91	44	14	NNW.	8	8th 15h.	11	8th 14 . 39
3. ENGLAND, E.																
Gorleston	52	42	‡	—	—	—	—	20	109	33	6	—	9	7th 8h.	11	7th 8 . 45
Shoeburyness	103	90	‡	—	—	—	—	41	101	26	0	SW. by S.	10	7th 9h.	12	7th 7 . 37
4. MIDLAND COUNTIES.																
Benson	270	84	‡	—	—	—	—	13	89	36	0	SSE.	7	6th 20h.	12	6th 14 . 56
5. ENGLAND, S.E.																
Dover	271	40	‡	—	—	—	—	—	—	—	—	—	—	—	—	—
Warlingham	642	33	‡	—	—	—	—	1	94	73	0	—	6	2nd 17h.	11	7th 9 . 17
Brighton	261	53	6	—	—	—	—	28	109	31	0	—	9	7th 7h.	13	7th 2 . 32
Kew Observatory ..	82	65	6 †	—	—	—	—	2	111	54	1	WSW.	6	2nd 10h.	10	2nd 10 . 6
			22 †													
South Kensington ..	123	92	30	—	—	—	—	—	98	70	0	SW. by W.	4	2nd 18h.	8	2nd 10 . 39
7. ENGLAND, N.W.																
Carnforth	246	56	23	—	—	—	—	4	58	106	0	WSW.	7	8th 13h.	12	8th 12 . 30
Southport	80	62	48	—	—	8th	11	50	101	6	0	WNW.	12	8th 6h.	15	8th 5 . 47
Holyhead*	60	40	‡	—	—	7, 8	4	54	94	16	0	NW.	12	7th 23h.	15	7th 22 . 58
8. ENGLAND, S.W.																
Pendennis Castle§ ..	256	65	24	—	—	6th	6	56	72	34	0	SSW.	13	6th 12h.	16	6th 12 . 38
Plymouth	185	88	2	—	—	6th	3	42	95	28	0	—	13	6th 14h.	16	6th 13 . 17
Lyme Regis	556	61	‡	—	—	—	—	18	98	52	0	—	8	6th 17h.	12	6th 17 . 28
10. IRELAND, S.																
Quilty	100	40	‡	—	—	—	—	50	82	13	23	—	9	3rd 17h.	13	7th 5 . 45
Weaver Pt.	160	30	‡	—	—	—	—	34	121	13	0	—	9	8th 1h.	13	8th 0 . 50
11. ENGLISH CHANNEL.																
Scilly*	150	32	‡	—	—	—	—	17	86	65	0	S.	8	6th 7h.	13	6th 6 . 43
		19														

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.

† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

TWENTY-SEVENTH WEEK—July 2nd to July 8th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			Pressure Mean for the Week at M.S.L
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
			Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	64	41	86·3	81·4	83·7	− 1·8	65	− 23	0	0	5	+ 1	1·33	34	+ 14	1·4	−3·0	8	1009
Eastern.																			
1. SCOTLAND, EAST ...	64	33	86·7	81·2	83·8	− 2·7	66	− 34	0	0	6	+ 2	2·80	71	+ 55	1·2	−4·5	7	1008
2. ENGLAND, N.E.	68	40	89·7	82·8	86·1	− 1·7	95	− 21	0	0	4	+ 1	0·74	19	+ 7	3·1	−3·6	19	1007
3. ENGLAND, EAST ...	72	42	91·8	83·9	87·6	− 1·2	113	− 16	0	0	4	+ 1	0·48	12	+ 1	4·5	−2·9	28	1009
4. MIDLAND COUNTIES ...	72	44	91·4	83·1	86·9	− 1·6	106	− 20	0	0	4	+ 1	0·85	22	+ 10	3·6	−3·1	22	1008
5. ENGLAND, S.E.	74	40	92·1	83·7	87·6	− 1·5	113	− 20	0	0	3	+ 1	0·56	14	+ 4	6·1	−1·5	37	1009
Western.																			
6. SCOTLAND, WEST ...	69	37	88·7	82·0	85·1	− 1·8	83	− 22	0	0	5	+ 1	1·47	37	+ 17	2·7	−3·3	16	1007
7. ENGLAND, N.W.	66	42	89·3	83·4	86·1	− 1·7	95	− 22	0	0	4	+ 1	0·77	20	+ 5	3·3	−3·1	20	1007
8. ENGLAND, S.W.	70	43	90·3	83·6	86·7	− 1·5	103	− 19	0	0	3	0	0·98	25	+ 12	5·5	−1·5	34	1009
9. IRELAND, NORTH ...	66	41	88·3	81·8	84·9	− 2·2	80	− 28	0	0	4	0	0·53	14	− 2	4·8	−0·1	28	1009
10. IRELAND, SOUTH ...	69	44	90·1	83·3	86·4	− 1·5	99	− 19	0	0	6	+ 2	1·00	25	+ 10	4·3	−1·1	26	1009
11. ENGLISH CHANNEL ...	67	47	90·2	84·8	87·3	− 1·6	111	− 20	0	0	3	0	0·58	15	+ 4	7·5	−1·0	47	1010

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 5 Weeks, June 4th to July 8th, 1916.

0. SCOTLAND, NORTH ...	73	35	86·3	80·6	83·3	− 1·4	297	− 97	0	− 2	21	+ 2	3·87	99	+ 12	2·8	−2·2	16	1011
Eastern.																			
1. SCOTLAND, EAST ...	72	30	87·1	79·9	83·3	− 2·3	300	−143	2	+ 1	22	+ 6	6·23	158	+ 90	3·1	−2·8	18	1010
2. ENGLAND, N.E.	72	32	88·1	81·1	84·4	− 1·9	368	−122	0	0	19	+ 5	2·77	70	+ 15	3·6	−2·8	22	1011
3. ENGLAND, EAST ...	75	36	89·3	81·7	85·3	− 2·1	423	−132	0	0	22	+ 8	2·92	74	+ 17	4·3	−2·7	26	1012
4. MIDLAND COUNTIES ...	72	34	89·5	81·1	85·0	− 2·3	408	−142	0	0	18	+ 4	2·66	68	+ 8	3·8	−2·5	23	1012
5. ENGLAND, S.E.	74	35	89·7	81·8	85·5	− 2·3	435	−149	0	0	19	+ 6	2·72	70	+ 16	5·4	−1·7	33	1012
Western.																			
6. SCOTLAND, WEST ...	74	32	88·8	80·8	84·5	− 1·7	376	−106	0	0	19	+ 2	3·35	85	− 2	5·5	−0·8	32	1011
7. ENGLAND, N.W.	74	37	88·3	82·0	84·9	− 1·9	403	−118	0	0	17	+ 1	3·08	78	+ 10	4·9	−1·6	29	1012
8. ENGLAND, S.W.	71	35	88·9	81·8	85·1	− 2·1	415	−133	0	0	18	+ 3	3·55	90	+ 23	6·0	−0·9	37	1013
9. IRELAND, NORTH ...	73	35	87·7	81·1	84·2	− 2·1	356	−128	0	0	18	− 1	2·34	60	− 18	5·3	−0·1	31	1013
10. IRELAND, SOUTH ...	75	35	89·4	82·1	85·5	− 1·6	437	− 99	0	0	22	+ 5	3·64	92	+ 18	6·2	+0·2	37	1014
11. ENGLISH CHANNEL ...	68	40	89·0	83·3	86·0	− 1·8	468	−111	0	0	16	0	1·74	44	− 8	6·8	−1·4	42	1014

THE YEAR.—Aggregates, &c., for the Period of 27 Weeks, January 2nd to July 8th, 1916.

0. SCOTLAND, NORTH ...	76	20	82·2	76·5	79·2	− 0·2	716	−126	454	−103	136	+13	30·17	765	+149	2·8	−0·7	22	1008
Eastern.																			
1. SCOTLAND, EAST ...	77	7	82·6	75·9	79·1	− 0·4	767	−207	585	− 35	123	+23	22·85	582	+229	3·3	−0·8	26	1009
2. ENGLAND, N.E.	81	20	83·8	77·2	80·4	+ 0·2	1031	− 11	379	− 96	106	+15	13·97	355	+ 83	3·5	−0·9	28	1011
3. ENGLAND EAST ...	83	24	84·7	77·6	81·0	+ 0·4	1207	− 39	353	−168	107	+18	14·78	373	+105	3·9	−0·7	31	1012
4. MIDLAND COUNTIES ...	83	21	84·7	77·0	80·7	0·0	1168	−101	405	−128	104	+16	15·48	395	+ 89	3·4	−0·8	27	1012
5. ENGLAND, S.E.	80	15	85·1	78·0	81·5	+ 0·1	1308	− 43	294	− 87	106	+22	15·56	395	+ 98	4·3	−0·4	34	1012
Western.																			
6. SCOTLAND, WEST ...	77	17	83·5	77·1	80·2	− 0·2	948	−126	365	− 60	123	+17	22·88	583	+ 44	3·9	−0·3	31	1010
7. ENGLAND N.W.	79	8	83·9	77·9	80·8	0·0	1078	− 67	310	− 76	111	+14	18·23	464	+ 85	3·7	−0·5	29	1011
8. ENGLAND, S.W.	79	17	84·4	78·2	81·2	− 0·3	1194	−119	279	− 22	113	+18	20·31	520	+ 94	4·3	−0·4	34	1013
9. IRELAND NORTH ...	76	18	83·6	77·3	80·3	− 0·6	965	−179	334	− 11	129	+15	20·05	512	+ 77	3·7	−0·3	29	1011
10. IRELAND, SOUTH ...	77	20	84·7	78·2	81·3	− 0·4	1210	−145	244	− 15	138	+35	20·74	524	+ 56	4·2	−0·2	33	1013
11. ENGLISH CHANNEL ...	79	30	85·1	80·1	82·5	− 0·1	1441	− 57	85	− 24	113	+10	16·21	409	+ 54	4·9	−0·7	39	1014
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	m.m.	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., July 13th, 1916.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 109

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 28. SUNDAY, JULY 9TH, TO SATURDAY, JULY 15TH, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE TWENTY-EIGHTH WEEK OF 1916.

Throughout this period the weather maintained the unstable, dull conditions which have been prevalent during several successive weeks. As a rule the nights were fairly mild, with numerous minimum temperatures above 283° A. (50° F.), a number of stations remaining as high as 286° to 288° A. (55°–58° F.) through the night of the 12th–13th. On the other hand the afternoon maxima were everywhere low, with an almost entire absence of readings as high as 294° A. (70° F.), while large numbers of records were below 288° A. (59° F.), in many instances between 284° and 286° A. (52° and 55° F.). Combining the mild nights and the cold days the mean results for the whole week were everywhere below the normal, from 1° A. (2° F.) in Ireland South and Scotland North to 2¼° A. (4° F.) in England South-East. Rainfall was very irregular in its distribution, England North-West receiving a normal amount, while the English Channel district had only 31 per cent., and Scotland North 50 per cent., against 142 per cent. in Ireland South and 175 per cent. in England North-East. Generally the individual falls were small, few exceeding 10 mm. on any day, but on the 12th Dumfries measured 21 mm., and Colmonell 22 mm., and on the 15th Marchmont had 20 mm. Thunderstorms occurred locally in the eastern districts of England on the 10th, 13th and 14th. With eight hours per day the Channel district had the normal duration of sunshine, but all other regions returned a deficiency, only 43 per cent. of the usual amount in Scotland North, and 42 per cent. in Scotland East. The temperature of the coastal sea water was 1° A. (nearly 2° F.) above the average off the west of Ireland, elsewhere it was below, by as much as 2½° A. (4½° F.) off Wick.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.
		m/s		m/s		m/s		m/s		m/s		m/s		m/s		m/s
South	2	2·5	4	2·4	4	1·6	4	2·7	5	3·6	1	3·9	5	2·8	3	3·8
North	5	3·5	3	1·4	2	2·4	2	1·0	2	3·8	6	2·8	2	2·5	2	2·4
West	5	4·6	6	4·6	6	2·8	7	2·3	7	4·7	6	5·5	6	1·7	5	4·5
East	2	1·0	1	1·1	1	2·2	0	—	0	—	0	—	1	2·5	1	1·1
Calm	0	—	0	—	0	—	0	—	0	—	0	—	¼	—	¼	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with normal for the time of year ... Warmth ...	Deficient	Deficient	Deficient	Deficient	Deficient	Very deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient
Rainfall ...	Light	Moderate	Heavy	Moderate	Moderate	Moderate	Heavy	Moderate	Light	Moderate	Moderate	Light
Sunshine ...	Very scanty	Very scanty	Scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Scanty	Scanty	Scanty	Moderate

II.—THE SUMMER SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SUMMER. 6 weeks from June 4th, 1916. Warmth ...	0, 1, 5	0, 0, 6	0, 0, 6	0, 0, 6	0, 0, 6	0, 0, 6	0, 0, 6	0, 1, 5	0, 0, 6	0, 1, 5	0, 1, 5	0, 0, 6
Rainfall ...	2, 2, 2	4, 1, 1	3, 3, 0	2, 4, 0	2, 3, 1	2, 4, 0	3, 2, 1	2, 3, 1	3, 1, 2	0, 5, 1	3, 2, 1	1, 3, 2
Sunshine ...	0, 2, 4	1, 0, 5	0, 0, 6	0, 1, 5	0, 0, 6	0, 1, 5	0, 1, 4	1, 0, 5	0, 2, 4	1, 1, 4	1, 1, 4	0, 3, 3

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1° A. = increment of ⅘° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour

(8701—19.) Wt. 79a—736. 450. 7/16. D & S. G. 17/ 36.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.																							
p Baltasound	*31*	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	*Baltasound.*
a, Islands.. *a* Lerwick	54	57	13th	47	9, 12, 15	54·9	47·6	51·0	- 0·7	4	0·48	12	—	2·0	- 2·6	11	*	*	*	*	*	*	Deerness.
a Stornoway	51	58	11, 12, 15	47	11th	56·4	49·0	52·4	- 1·3	5	0·29	7	- 10	1·5	- 3·6	9	*	*	*	*	*	*	Stornoway
a Castlebay, Barra Isd.	*37*	*60*	*13th*	*47*	*10th*	*56·1*	*49·6*	*52·6*	*- 1·4*	*4*	*0·98*	*25*	—	*2·7*	—	*16*	*	*	*	*	*	*	*Castlebay.*
a, Main-land. *a* Wick	81	63	13th	47	9, 12	57·7	48·1	52·6	- 1·5	6	0·42	11	- 3	*	*	*	*	*	*	*	*	*	
p Strathpeffer	200	62	12th	46	13th	59·4	49·1	53·9	- 1·8	1	0·01	0	- 16	2·1	- 2·3	12	*	*	*	*	*	*	Strathpeffer.
p Glencarron	500	62	12th	44	13th	55·0	47·0	50·7	- 2·8	7	0·90	23	- 7	*	*	*	*	*	*	*	*	*	
p Fort Augustus	68	64	14th	48	15th	60·3	49·8	54·6	- 0·9	4	0·27	7	- 9	1·7	- 1·9	10	*	*	*	*	*	*	Fort Augustus.
p Fort William	171	69	12th	44	13th	60·4	49·0	54·3	- 1·9	4	0·38	10	- 17	*	*	*	*	*	*	*	*	*	
1. SCOTLAND, E.																							
p Gordon Castle	101	65	12, 15	47	15th	61·3	49·0	54·7	- 1·8	7	1·01	26	+ 8	1·4	—	8	0	34	56·0	-1·9	52·4	-1·2	Crathes.
a Nairn	82	63	11, 12	44	15th	60·9	48·3	54·2	- 2·0	6	0·21	5	- 9	*2·4*	—	*14*	*	*	*	*	*	*	*Gordon Castle.*
a Aberdeen	46	61	11, 14, 15	48	15th	59·3	49·7	54·2	- 1·9	5	0·44	11	- 4	2·1	—	12	*	*	*	*	*	*	Nairn.
a Balmoral	930	65	15th	39	15th	59·6	45·1	51·9	- 2·1	4	0·08	2	- 13	1·9	- 3·6	11	*	*	*	*	50·7	-1·6	Aberdeen.
p Crieff	432	68	15th	44	9, 13	63·7	46·3	54·4	- 3·1	5	0·29	7	- 10	*	*	*	0	38	*	*	*	*	Balmoral.
														2·6	—	15	*	*	*	*	*	*	Balruddery.
a Leith	18	70	14th	48	9, 15	62·1	50·1	55·7	- 2·2	5	0·48	12	- 2	*	*	*	*	*	*	*	*	*	
a West Linton	769	62	13th	42	15th	57·3	46·7	51·6	- 2·8	6	0·99	25	—	*1·4*	—	*8*	0	34	*	*	*	*	*West Linton.*
p Marchmont	498	64	13, 15	45	13th	60·0	47·4	53·3	- 2·9	4	1·53	39	+ 21	2·5	- 3·2	15	0	39	*	*	*	*	Marchmont.
a Edinburgh	*441*	*63*	*13, 14*	*46*	*9th*	*58·9*	*48·6*	*53·4*	—	*6*	*0·60*	*15*	—	2·9	—	17	0	45	*	*	*	*	Edinburgh.
6. *a*, SCOTLAND, W.																							
a Poltalloch	132	63	12th	49	9th	58·0	51·3	54·4	- 3·0	5	1·47	37	+ 15	*	*	*	*	*	*	*	*	*	
p Glasgow Observatory	180	66	13th	48	9th	59·0	49·7	54·0	- 3·2	5	0·41	10	- 8	2·1	- 2·8	12	0	43	*	*	*	*	Glasgow.
p Rothesay	170	64	13th	47	9th	58·3	49·1	53·4	- 4·0	5	0·89	23	+ 1	*1·8*	—	*11*	0	45	55·9	*	53·0	-1·7	*Rothesay.*
a Kilmarnock	90	68	13th	48	13, 15	61·9	49·6	55·3	- 2·2	5	1·06	27	—	*2·0*	—	*12*	*	*	55·0	*	52·8	*	*Kilmarnock.*
a Colmonell	170	63	15th	48	15th	58·4	50·4	54·1	- 3·0	5	1·69	43	+ 25	*	*	*	0	43	*	*	*	*	
a Dumfries	160	66	13th	46	15th	59·7	49·3	54·1	- 4·4	6	1·59	41	+ 23	*2·2*	—	*13*	0	38	56·5	*	55·0	*	*Dumfries.*
Eskdalemuir	*799*	*63*	*13, 14*	*40*	*15th*	*58·1*	*45·7*	*51·5*	—	*6*	*1·63*	*41*	—	*1·7*	—	*10*	*	*	*	*	*	*	*Eskdalemuir.*
p Cally, Gatehouse	120	67	13th	45	15th	60·9	48·1	54·1	- 3·3	4	1·73	44	+ 24	*	*	*	*	*	*	*	*	*	
b. I. OF MAN. *p* Douglas	277	63	15th	48	9th	59·7	56·6	54·8	- 1·9	4	0·51	13	- 4	3·3	- 3·3	20	0	45	*	*	*	*	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	64	15th	47	10th	60·7	49·4	54·7	- 2·3	6	1·17	30	+ 15	2·6	—	15	0	39	54·2	-3·9	52·1	-2·1	Cockle Park.
a Tynemouth	71	64	15th	49	10, 15	59·6	50·4	54·7	- 2·5	6	1·30	33	+ 20	*	*	*	*	*	*	*	*	*	Tynemouth
p Durham	336	68	15th	45	10, 15	61·9	48·0	54·5	- 3·8	5	0·88	22	+ 6	3·6	- 1·9	22	0	39	*	*	*	*	Durham.
a North .. *p* Rounton	249	68	15th	43	15th	63·1	48·1	55·1	- 2·2	5	1·23	31	+ 17	*	*	*	0	38	57·1	*	*	*	Rounton.
a West Witton	*605*	*69*	*13th*	*48*	*9, 14, 15*	*62·0*	*49·4*	*55·3*	—	*6*	*0·52*	*13*	—	*	*	*	0	43	57·0	*	51·2	*	*West Witton.*
p Scarborough†	100	67	9th	48	9, 10	63·4	50·9	56·7	- 1·8	3	1·03	26	+ 13	6·6	—	40	*	*	*	*	53·0	*	Scarborough.
p York	56	70	15th	48	9, 10	64·9	51·7	57·8	- 1·8	5	0·81	21	+ 7	5·3	- 0·5	32	*	*	57·9	-0·5	54·4	-0·3	York.
b, South .. *a* Spurn Head	26	67	9th	50	10, 14	62·1	52·0	56·7	- 2·2	3	0·55	14	+ 5	*5·1*	—	*31*	*	*	*	*	*	*	*Spurn Head.*
a Lincoln	58	67	9th	46	9, 15	64·7	50·2	57·0	- 3·5	4	0·25	6	- 7	*	*	*	*	*	58·5	-1·0	55·0	-0·1	Lincoln.
a Fulbeck	180	67	9th	45	9th	65·1	49·3	56·7	- 3·5	4	0·31	8	- 5	4·1	—	25	0	43	58·7	-4·6	54·2	-2·3	Rauceby.
														5·4	—	33	*	*	*	*	*	*	Skegness.
3. ENGLAND, E.																							
p Cromer	196	67	9th	49	9, 15	63·4	51·0	56·8	- 2·7	3	0·15	4	—	5·9	—	36	*	*	*	*	*	*	Cromer.
p Little Massingham	280	67	9, 15	45	9th	64·1	48·9	56·0	- 3·4	4	0·20	5	- 10	4·2	- 2·3	26	0	45	*	*	*	*	Lit. Massingham.
a, North .. *a* Yarmouth	13	68	12th	49	15th	65·1	52·0	55·1	- 1·4	3	0·31	8	- 5	5·4	—	33	*	*	59·1	-4·7	55·0	-4·8	Yarmouth.
a Norwich	93	68	9th	49	9th	65·4	52·1	58·3	- 1·6	3	0·30	8	—	*1·9*	—	*12*	0	45	60·9	*	*	*	*Norwich.*
a Geldeston	37	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	Geldeston.
b, South .. *p* Cambridge	41	68	9th	45	9th	65·0	50·4	57·2	- 4·0	4	0·77	20	+ 7	3·0	- 3·8	18	0	37	60·0	-1·8	56·7	-1·3	Cambridge.
a Clacton-on-Sea	54	68	9th	49	9, 15	65·3	52·4	58·4	- 2·3	3	0·09	2	—	4·1	—	25	0	44	60·0	0·0	57·8	-0·5	Clacton.
a Rothamsted	424	64	9, 10	44	9th	62·7	49·6	55·7	- 4·1	4	0·69	18	+ 4	3·2	- 3·6	20	0	37	57·5	*	*	*	Rothamsted.
p Tottenham	51	68	9th	50	9, 15	65·4	53·9	59·3	- 2·3	4	0·41	10	—	3·5	—	22	0	46	*	*	57·7	-1·4	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate	479	66	13th	45	10, 15	61·4	47·7	54·1	- 3·3	5	0·74	19	+ 5	5·3	—	32	0	39	55·5	-0·6	53·8	-0·4	Harrogate.
p Buxton	*987*	*60*	*13th*	*47*	*9, 10*	*57·9*	*48·7*	*53·0*	*- 3·8*	*6*	*1·03*	*26*	*+ 4*	*3·0*	—	*18*	0	39	54·9	-3·9	51·6	-0·9	*Buxton.*
b, East .. *a* Bawtry	65	67	13th	45	9, 10	64·4	50·1	56·8	- 3·0	4	0·38	10	- 3	3·5	*	21	0	42	56·2	-1·6	52·5	-0·8	Sheffield.
a Nottingham	82	65	9th	43	14th	63·0	49·4	55·7	- 4·7	4	0·28	7	- 6	4·0	- 1·4	24	0	37	57·0	*	54·3	*	Worksop.
p Birmingham, Edgbsn.	535	66	15th	47	9, 10, 15	62·3	50·1	56·8	- 3·6	3	0·26	6	- 7	3·3	—	20	0	41	57·5	-2·4	54·9	-1·2	Nottingham.
a Raunds	203	69	9, 10	43	9th	65·3	48·7	56·4	- 4·3	4	0·44	11	—	2·8	—	17	0	41	53·2	-2·1	50·5	-0·9	Birmingham.
p Oxford	208	67	13, 15	46	15th	65·0	51·6	57·8	- 3·0	4	0·25	6	- 8	*3·2*	—	*20*	0	32	61·1	*	55·4	*	*Raunds.*
														3·7	- 2·9	23	0	42	*	*	*	*	Oxford
c, West .. *a* Cheadle	646	64	13th	46	9, 10	62·3	50·0	55·7	- 2·0	5	0·44	11	- 5	*	*	*	0	42	*	*	*	*	Cheadle.
p Shrewsbury	191	66	15th	45	10th	63·4	50·9	56·7	- 2·5	4	0·51	13	—	*	*	*	0	41	*	*	*	*	Shrewsbury.
a Hereford§	291	72	15th	45	9, 14	66·1	49·6	57·3	- 2·8	2	0·26	7	- 6	*4·6*	—	*28*	0	35	59·9	*	56·9	*	*Malvern.*§
a Bath	66	67	15th	48	9, 14	65·3	51·7	58·0	- 2·4	2	0·14	4	- 11	3·9	—	24	*	*	60·7	-2·1	58·1	-0·9	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	67	15th	40	9th	64·1	47·3	55·1	- 4·2	3	0·17	4	- 10	5·1	—	32	0	43	62·2	-1·3	58·5	-0·1	Worthing.
a Margate	53	67	9th	50	15th	64·6	53·0	58·4	- 2·8	4	0·72	18	+ 7	4·0	- 2·1	25	0	35	59·9	*	55·1	*	Marlborough.
a Wisley, Surrey	150	68	9, 10	45	9, 15	65·9	50·4	57·6	- 4·5	2	0·09	2	—	4·1	- 2·3	25	0	47	61·7	+1·0	60·0	+2·7	Margate.
p Salisbury (Wilton)	180	70	14th	41	9th	66·7	48·3	56·9	- 4·6	3	0·10	3	- 10	2·7	—	*11*	0	35	59·2	-2·5	55·6	-2·4	Wisley.
a Tunbridge Wells	354	66	9th	45	15th	63·7	49·7	56·2	- 4·2	4	0·42	11	- 2	*	*	*	0	38	61·0	*	*	*	Salisbury.
														3·3	- 3·5	21	0	36	59·4	-3·5	56·9	*	Tunbridge Wells.
a Dungeness	21	65	*11, 15*	47	9th	63·1	53·1	57·8	- 2·7	2	0·05	1	- 9	*	*	*	*	*	*	*	*	*	
p Hastings..	178	65	14th	48	9th	63·1	52·1	57·2	- 3·2	3	0·18	5	- 7	4·5	- 3·3	28	0	45	*	*	*	*	Littlestone.
p Southampton	64	68	14, 15	47	9th	65·3	51·1	57·7	- 4·5	3	0·59	15	+ 2	4·2	- 3·0	26	0	39	*	*	*	*	Hastings.
a Ventnor	59	67	14th	51	9th	64·1	53·6	58·5	- 2·9	2	0·07	2	- 10	6·1	- 0·8	38	*	*	*	*	*	*	Southampton.
LONDON. *p* Kew Observatory	18	67	9th	49	9, 15	64·9	52·9	58·5	- 2·8	4	0·46	12	- 1	2·2	- 4·5	14	0	40	59·2	-2·0	55·9	-0·7	Ventnor.
a Westminster	*27*	*67*	*9th*	*48*	*15th*	*65·0*	*52·4*	*58·3*	*- 3·5*	*4*	*0·35*	*9*	*- 4*	*2·9*	*- 2·9*	*18*	0	43	*	*	*	*	Kew Obs.
a Greenwich	*155*	*72*	*9th*	*47*	*9, 15*	*67·4*	*51·4*	*58·8*	*- 3·9*	*5*	*0·30*	*8*	*- 6*	*3·1*	*- 4·3*	*19*	0	38	*	*	*	*	*Westminster.*
a Hampstead	*450*	*66*	*9th*	*46*	*9, 15*	*63·6*	*49·6*	*56·1*	—	*4*	*0·32*	*8*	—	*3·3*	—	*20*	0	32	*	*	*	*	*Greenwich.*
a Camden Square	*110*	*70*	*9-11*	*47*	*15th*	*67·7*	*52·0*	*59·3*	—	*4*	*0·32*	*8*	—	*2·7*	—	*17*	0	46	*	*	*	*	*Hampstead.*
																							Camden Square.
7. *a*, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	65	13th	48	9, 13, 15	58·0	48·6	53·0	- 3·6	5	1·53	39	+ 19	4·7	—	28	*	*	*	*	*	*	Hoylake.
p Newton Rigg	559	68	13th	48	10, 15	60·1	48·1	53·7	- 2·8	6	0·84	21	+ 5	2·5	—	15	0	46	55·0	*	52·6	*	Aspatria.
p Stonyhurst	375	66	13th	46	14th	60·3	50·1	54·8	- 3·6	5	1·40	36	+ 15	2·7	- 3·3	16	0	39	56·9	-2·5	53·0	-1·4	Newton Rigg.
p Blackpool	66	64	13th	52	14th	61·0	53·9	57·2	- 1·5	4	0·50	13	- 2	2·8	- 3·2	17	0	44	*	*	*	*	Stonyhurst.
a Southport	37	62	9, 11, 13	49	10th	60·7	53·3	56·7	- 2·0	5	0·35	9	- 6	4·2	- 2·0	25	0	48	59·1	*	54·8	*	Blackpool.
a Liverpool (Bidston)	188	63	12th	50	10th	60·4	52·6	56·2	- 3·7	3	0·28	7	- 8	4·8	- 1·7	29	0	42	61·3	-1·9	58·1	-1·4	Southport.
a Hawarden Bridge	22	68	12th	50	9th	63·1	53·4	57·9	- 1·7	3	0·30	8	- 6	*4·3*	—	*26*	*	*	*	*	*	*	*Liverpool.*
p Manchester (Whit. Pk.)	125	64	9, 13, 14	48	10th	61·7	51·9	56·5	- 3·1	5	0·49	12	0	*2·0*	—	*12*	0	45	57·6	-1·8	56·8	+0·4	*Manchester (City)*
														1·5	*- 3·6*	*9*	*	*	*	*	*	*	" *(Whit. Park)*
b, NORTH WALES.																							
p Llandudno	71	65	12th	51	9th	60·1	53·3	56·5	- 2·8	3	0·32	8	- 5	3·8	- 2·4	23	*	*	*	*	*	*	Llandudno.
a Holyhead	15	64	15th	51	9–11	61·1	52·3	56·4	- 1·3	4	0·51	13	- 1	*3·7*	—	*23*	*	*	*	*	*	*	*Holyhead.*
p Bettws-y-Coed	148	66	15th	48	9th	61·4	50·6	55·6	- 3·3	3	0·30	8	—	2·5	—	15	*	*	55·1	-2·4	52·0	-1·4	Bettws-y-Coed.
														3·5	—	*22*	*	*	*	*	*	*	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.				Mean for the Week.			Deviation from Normal.	Rainfall.			Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Of Daily Max.	Of Daily Min.	Daily Mean.		No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														3·0	—	19	*	*	*	*	*	*	
a Llangammarch Wells	550	67	15th	44	10, 14	61·0	49·1	54·6	− 3·1	4	0·58	15	—	2·6	—	16	0	37	56·3	−0·8	52·7	0·0	Aberystwyth.
a Pembroke	149	62	13, 14	52	9, 14, 15	59·9	53·3	56·4	− 1·3	1	0·36	9	− 5	3·3	− 3·6	20	*	*	*	*	*	*	Llangammarch.
p Cardiff	202	66	15th	49	9th	63·1	52·0	57·2	− 3·3	2	0·48	12	− 5	*6·1*	—	*38*	0	46	59·7	−0·8	55·3	−2·2	Pembroke.
																							Cardiff.
b, ENGLAND S.W.														*5·8*	—	*36*	0	48	*	*	*	*	
a Clifton	229	68	15th	50	14th	64·6	53·4	58·6	− 2·6	2	0·53	13	− 3	*	*	*	*	*	58·3	*	56·2	*	*Clifton.*
a Shaftesbury	722	66	14, 15	46	9th	63·1	49·1	55·6	− 3·7	3	0·21	5	− 9	*	*	*	*	*	*	*	*	*	Shaftesbury.
a Arlington	613	66	15th	42	10th	61·9	49·0	55·0	− 2·6	4	0·55	14	− 8	5·5	− 1·4	34	*	*	61·5	*	56·5	*	Arlington.
a Newquay	*190*	*63*	3, 11, 14	*50*	*10, 11, 12*	*61·9*	*52·4*	*56·8*	− 2·7	*4*	*0·11*	*3*	− *10*	4·6	− 1·6	29	0	40	59·8	*	*	*	Newquay.
a Cullompton	202	71	15th	44	9th	66·6	48·6	57·0	− 2·8	4	0·24	6	− 9	*5·9*	—	*37*	*	*	*	*	*	*	Cullompton.
a Portland Bill	19	64	14th	53	15th	60·9	54·0	57·2	− 2·3	2	0·12	3	—	4·5	− 2·3	28	*	*	60·5	−3·5	57·0	*	*Weymouth.*
p Plymouth	116	69	15th	49	9, 12, 15	64·3	51·4	57·4	− 3·1	4	0·19	5	− 10	6·0	− 1·3	38	0	41	62·6	*	59·2	*	Portland Bill.
a Falmouth	167	67	15th	50	10, 15	63·9	51·7	57·4	− 2·2	3	0·18	5	− 11										Plymouth.
																							Falmouth.
9. IRELAND. N.														*0·9*	*	*5*	*	*	*	*	*	*	
a, West .. { *a* Malin Head	208	65	15th	48	9, 10	57·1	50·0	53·3	− 2·6	6	1·54	39	+ 24	*	*	*	*	*	*	*	*	*	*Malin Head.*
a Blacksod Point ..	?	59	11, 14, 15	47	10th	58·1	50·0	53·8	− 3·1	5	1·18	30	+ 13	2·8	− 1·6	17	0	40	58·4	*	53·9	*	*
p Markree Castle ..	122	64	15th	47	14th	60·9	50·0	55·1	− 1·3	5	1·28	33	+ 14	*3·7*	− *0·9*	*23*	*	*	*	*	*	*	Markree Castle.
a Birr Castle	175	66	15th	48	9th	62·7	50·9	56·4	− 1·5	5	0·80	20	+ 4										*Birr Castle.*
b, East .. { *p* Armagh	196	65	12, 15	47	9th	62·0	50·0	55·6	− 1·5	5	0·99	25	+ 8	2·0	− 2·9	12	0	44	57·5	−3·3	54·3	−1·8	Armagh.
a Donaghadee	101	65	15th	50	9–11, 14	59·6	51·0	55·0	− 2·0	4	0·47	12	− 4	*	*	*	0	41	58·7	−2·0	55·2	−1·4	*
														2·6	− 3·2	16	0	37	*	*	*	*	Trinity Coll.
10. IRELAND, S.														*	*	*	0	46	*	*	*	*	Phœnix Park.
a, East .. { *p* Dublin, City	47	67	12, 15	47	9th	63·3	52·1	57·3	− 2·9	4	0·71	18	+ 4	*	*	*	*	*	*	*	*	*	Dublin City.
a Kilkenny	212	69	15th	45	10th	64·6	50·1	56·9	− 2·1	4	0·17	4	− 11	*	*	*	*	*	*	*	*	*	*
a Waterford	20	68	13th	46	10th	64·7	51·1	57·4	− 1·9	3	0·21	5	− 14	*	*	*	*	*	*	*	*	*	*
a Seskin, Carrick-on-Suir	*541*	*68*	*15th*	*46*	*9, 10*	*64·3*	*49·1*	*56·2*	—	*4*	*0·26*	7	—	*4·4*	—	*27*	0	43	*	*	*	*	*Seskin.*
b, West .. { *a* Birr Castle	175	66	15th	48	9th	62·7	50·9	56·4	− 1·5	5	0·80	20	+ 4	3·7	− 0·9	23	*	*	*	*	*	*	Birr Castle.
a Foynes	50	68	15th	49	14th	63·3	52·0	57·3	− 1·2	6	0·39	10	− 6	*	*	*	*	*	*	*	*	*	*
a Cahir	198	70	15th	44	10, 15	65·4	48·6	56·4	− 2·5	3	0·18	5	—	*	*	*	*	*	*	*	*	*	*
a Killarney	174	70	15th	50	9, 10	65·6	52·5	58·6	+ 0·5	5	0·77	20	+ 1	*	*	*	*	*	*	*	*	*	*
a Valencia	30	64	11th	51	14th	61·9	53·1	57·2	− 0·7	4	0·64	16	− 5	4·6	− 0·6	29	*	*	*	*	*	*	Valencia.
a Roche's Point	32	66	14th	48	15th	63·1	51·6	57·0	− 1·6	7	0·63	16	0	3·5	—	22	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	66	15th	51	10th	63·9	53·7	58·4	− 1·8	4	0·24	8	− 7	6·5	− 0·9	41	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	68	15th	50	10th	64·9	53·4	58·8	− 2·7	3	0·06	2	− 11	9·1	+ 1·1	58	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	68	15th	52	9, 15	65·0	53·6	58·9	− 1·8	3	0·12	3	− 9	8·8	+ 0·6	55	0	41	61·8	−0·8	59·4	+0·1	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, July 15th, 1916.

DISTRICT AND STATION	Height. Above Mean Sea Level.	Height. Above Ground.	Height. Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Gales, force 8 or more. Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	High Winds, forces 6 and 7. Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.	Date and Hour, G.M.T.	Highest Gust with Date and Time, G.M.T.
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	m/s.		m/s. d. h. m.
1. SCOTLAND, E.														
Dyce	305	75	‡15**	—	—	—	—	2	89	77	0	— 6	13th 15h.	15 13th 14 . 55
Aberdeen*	153	105 { 37 / 52 } †		—	—	—	—	39	84	45	0	NW. by W. 10	13th 15h.	15 14th 12 . 52
Edinburgh	485	39	31	—	—	—	—	78	74	16	0	W. by S. 8	11th 15h.	13 10th 9 . 10
6. SCOTLAND, W.														
Eskdalemuir	850	50	22	—	—	—	—	63	82	23	0	SW. by S. 10	10th 8h.	14 10th 23 . 0
Paisley	188	81	52	—	—	—	—	22	108	38	0	NW. by N. 8	13th 15h.	16 13th 15 . 32
2. ENGLAND, N.E.														
Alnwick Castle	340	70	17	—	—	—	—	4	100	64	0	— 6	11th 12h.	13 11th 11 . 42
South Shields	72	61	12	—	—	—	—	69	75	24	0	WNW. 10	11th 9h.	16 11th 8 . 35
Spurn Head	66	40	‡	—	—	—	—	52	96	15	5	NNW. 9	11th 15h.	13 12th 14 . 11
3. ENGLAND, E.														
Gorleston	52	42	‡	—	—	—	—	39	118	11	0	— 10	12th 19h	15 12th 18 . 53
Shoeburyness	103	90	‡	—	—	12th	6	37	112	13	0	SW. 13	12th 17h.	20 12th 17 . 0
4. MIDLAND COUNTIES.														
Benson	270	84	‡	—	—	—	—	31	111	26	0	SW. 9	12th 11h.	15 12th 20 . 11
5. ENGLAND, S.E.														
Dover	271	40	‡	—	—	10, 12	7	48	78	35	0	— 12	12th 13h.	18 12th 12 . 50
Warlingham	642	33	‡	—	—	—	—	14	121	16	17	— 9	12th 17h.	17 12th 17 . 2
Brighton	261	53	6	—	—	—	—	55	105	8	0	— 9	12th 19h.	16 12th 18 . 27
Kew Observatory ..	82	65 { 6 / 22 } †		—	—	—	—	18	118	32	0	SW. 8	12th 14h.	16 12th 16 . 36
South Kensington ..	123	92	30	—	—	—	—	2	114	52	0	SW. 6	12th 12h.	11 12th 15 . 35
7. ENGLAND, N.W.														
Carnforth	246	56	23	—	—	—	—	18	84	66	0	SW. by W. 7	10th 23h.	14 11th 5 . 37
Southport	80	62	48	—	—	9 to 13	43	109	15	1	0	W. by S. 13	11th 6h.	17 11th 5 . 43
Holyhead*	60	40	‡	—	—	12th	1	147	20	0	0	WSW. 11	12th 21h.	16 12th 19 . 50
8. ENGLAND, S.W.														
Pendennis Castle§ ..	256	65	24	—	—	12th	6	84	77	1	0	SW. 14	12th 11h.	20 12th 8 . 35
Plymouth	185	88	2	—	—	—	—	36	111	21	0	— 11	12th 12h.	16 12th 12 . 47
Lyme Regis	556	61	‡	—	—	12th	1	29	111	27	0	— 11	12th 14h.	16 12th 13 . 58
10. IRELAND, S.														
Quilty	100	40	‡	—	—	12, 13	6	101	54	7	0	— 12	12th 15h.	17 12th 16 . 55
Weaver Pt.	160	30	‡	—	—	—	—	73	93	2	0	— 9	12th 19h.	15 12th 18 . 35
11. ENGLISH CHANNEL.														
Scilly*	150	{ 32 / 19 }	‡	—	—	—	—	74	67	22	5	WNW. 11	12th 22h.	17 12th 17 . 48

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer. ** Above tops of trees.

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory.

† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

TWENTY-EIGHTH WEEK—July 9th to July 15th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Pressure Mean for the Week at M.S.L.
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	69	44	87·3	82·2	84·6	− 1·0	76	− 13	0	0	4	0	0·39	10	− 10	1·8	−2·4	11	1010
Eastern.																			
1. SCOTLAND, EAST ...	70	39	88·8	81·8	85·1	− 1·5	83	− 19	0	0	5	+ 1	0·63	16	− 2	2·2	−3·1	13	1010
2. ENGLAND, N.E.	70	43	90·1	83·0	86·3	− 1·6	98	− 20	0	0	5	+ 1	0·84	21	+ 9	4·6	−1·8	28	1012
3. ENGLAND, EAST ...	68	44	91·1	83·7	87·2	− 1·7	109	− 22	0	0	4	+ 1	0·37	9	− 4	4·2	−2·9	26	1015
4. MIDLAND COUNTIES ...	72	43	90·7	83·0	86·6	− 2·0	101	− 26	0	0	4	+ 1	0·37	9	− 4	3·8	−2·5	23	1015
5. ENGLAND, S.E.	70	41	91·1	83·7	87·1	− 2·3	108	− 28	0	0	3	0	0·29	7	− 5	4·0	−3·3	25	1016
Western.																			
6. SCOTLAND, WEST ...	68	45	88·3	82·9	85·4	− 1·6	86	− 20	0	0	5	+ 1	1·17	30	+ 8	2·7	−3·0	16	1011
7. ENGLAND, N.W.	68	46	88·9	83·8	86·2	− 1·7	97	− 21	0	0	4	+ 1	0·64	16	0	3·4	−2·8	20	1015
8. ENGLAND, S.W.	71	42	90·2	83·7	86·7	− 1·7	102	− 23	0	0	3	− 1	0·34	9	− 7	4·2	−2·4	26	1017
9. IRELAND, NORTH ...	66	47	88·6	83·2	85·7	− 1·4	90	− 18	0	0	5	0	1·04	27	+ 8	2·4	−2·2	14	1014
10. IRELAND, SOUTH ...	70	44	90·7	83·7	87·0	− 0·9	106	− 12	0	0	5	+ 2	0·50	13	− 5	3·6	−1·6	22	1017
11. ENGLISH CHANNEL ...	68	50	91·1	85·0	87·8	− 1·4	117	− 18	0	0	3	0	0·14	4	− 9	8·1	0·0	51	1019

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 6 Weeks, June 4th to July 15th, 1916.

0. SCOTLAND, NORTH ...	73	35	86·5	80·9	83·5	− 1·4	373	−110	0	− 2	25	+ 2	4·26	109	+ 2	2·7	−2·2	15	1011
Eastern.																			
1. SCOTLAND, EAST ...	72	30	87·4	80·3	83·6	− 2·1	383	−162	2	+ 1	27	+ 7	6·86	174	+ 88	2·9	−2·9	17	1010
2. ENGLAND, N.E.	72	32	88·5	81·4	84·7	− 1·9	466	−142	0	0	24	+ 6	3·61	91	+ 24	3·8	−2·6	23	1011
3. ENGLAND, EAST ...	75	36	89·6	82·1	85·6	− 2·0	532	−154	0	0	26	+ 9	3·29	83	+ 13	4·3	−2·7	26	1012
4. MIDLAND COUNTIES ...	72	34	89·7	81·4	85·3	− 2·2	509	−168	0	0	22	+ 5	3·03	77	+ 4	3·8	−2·5	23	1013
5. ENGLAND, S.E.	74	35	89·9	82·1	85·8	− 2·3	443	−177	0	0	22	+ 6	3·01	77	+ 11	5·2	−2·0	32	1013
Western.																			
6. SCOTLAND, WEST ...	74	32	88·7	81·2	84·7	− 1·7	462	−126	0	0	24	+ 3	4·52	115	+ 6	5·0	−1·2	30	1011
7. ENGLAND, N.W.	74	37	88·4	82·3	85·1	− 1·9	500	−139	0	0	21	+ 2	3·72	94	+ 10	4·6	−1·9	28	1012
8. ENGLAND, S.W.	71	35	89·1	82·2	85·4	− 2·0	517	−156	0	0	21	+ 2	3·89	99	+ 16	5·7	−1·2	35	1014
9. IRELAND, NORTH ...	73	35	87·9	81·4	84·5	− 1·9	446	−146	0	0	23	− 1	3·38	87	− 10	4·8	−0·5	29	1013
10. IRELAND, SOUTH ...	75	35	89·6	82·4	85·7	− 1·5	543	−111	0	0	27	+ 7	4·14	105	+ 13	5·7	−0·2	35	1014
11. ENGLISH CHANNEL ...	68	40	89·4	83·6	86·3	− 1·7	585	−129	0	0	19	0	1·88	48	− 17	7·0	−1·2	44	1015

THE YEAR.—Aggregates, &c., for the Period of 28 Weeks, January 2nd to July 15th, 1916.

0. SCOTLAND, NORTH ...	76	20	82·3	76·7	79·4	− 0·2	792	−139	454	−103	140	+13	30·56	775	+139	2·8	−0·8	21	1008
Eastern.																			
1. SCOTLAND, EAST ...	77	7	82·8	76·1	79·3	− 0·5	850	−226	585	− 35	128	+24	23·48	598	+227	3·2	−0·9	25	1009
2. ENGLAND, N.E.	81	20	84·0	77·4	80·6	+ 0·1	1129	− 31	379	− 96	111	+16	14·81	376	+ 92	3·5	−0·9	27	1011
3. ENGLAND EAST ...	83	24	84·9	77·8	81·2	+ 0·3	1316	− 61	353	−168	111	+19	15·15	382	+101	3·9	−0·8	31	1012
4. MIDLAND COUNTIES ...	83	21	84·9	77·3	80·9	0·0	1269	−127	405	−128	108	+17	15·85	404	+ 85	3·4	−0·8	27	1012
5. ENGLAND, S.E.	80	15	85·4	78·2	81·7	+ 0·1	1416	− 71	294	− 87	109	+22	15·85	402	+ 93	4·3	−0·5	34	1013
Western.																			
6. SCOTLAND, WEST ...	77	17	83·6	77·3	80·4	− 0·3	1034	−146	365	− 60	128	+18	24·05	613	+ 52	3·9	−0·3	30	1010
7. ENGLAND N.W.	79	8	84·1	78·1	81·0	0·0	1175	− 88	310	− 76	115	+15	18·87	480	+ 85	3·7	−0·6	29	1012
8. ENGLAND, S.W.	79	17	84·6	78·4	81·4	− 0·3	1296	−142	279	− 22	116	+17	20·65	529	+ 87	4·3	−0·4	33	1013
9. IRELAND NORTH ...	76	18	83·8	77·5	80·5	− 0·6	1055	−197	334	− 11	134	+15	21·09	539	+ 85	3·7	−0·3	28	1011
10. IRELAND, SOUTH ...	77	20	84·9	78·4	81·5	− 0·5	1316	−157	244	− 15	143	+37	21·24	537	+ 51	4·1	−0·3	32	1013
11. ENGLISH CHANNEL ...	79	30	85·3	80·2	82·7	− 0·2	1558	− 75	85	− 24	116	+10	16·35	413	+ 45	5·0	−0·6	40	1014
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F			inches.	mm.	m.m.	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., July 20th, 1916.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 113

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 29. SUNDAY, JULY 16TH, TO SATURDAY, JULY 22ND, 1916.

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I.—THE TWENTY-NINTH WEEK OF 1916.

The cloudy cool conditions which prevailed during the preceding week continued at the commencement of the period. Later the skies cleared somewhat and there was a corresponding rise in day temperature. Mean temperatures for the week were above the normal in Scotland and Ireland, below the normal in the East of England, and about normal elsewhere. The highest maximum readings occurred during the last three days of the week in all districts and ranged up to 297° or 300° A. (75° or 80° F.). The low temperature of 277° A. (40° F.) occurred at several stations on the night of the 17th, while on the same night the exposed thermometer on the grass fell to the freezing point at Crathes. Rainfall was deficient over the whole country, though the amount of the departure from normal varied considerably in the different districts. Thus in England North-East the fall amounted to 79 per cent. of the normal, while in Ireland South only 1 mm. fell or 6 per cent. Thunder was heard at several stations in the north and west during the latter half of the week, but in nearly all cases it was unaccompanied by heavy rain. Bright sunshine was in excess of the normal in the south-western parts of the British Isles but over the rest of the country there was some deficiency. Solar halos were observed at Oxford, Greenwich and Dublin. During the week mist and fog were very prevalent at coastal stations, particularly in the north and west. Sea temperature was 2° A. (3·5° F.) in excess of the normal in the south-west of Ireland, but elsewhere the departures were negative, the greatest deficiency being 1·8° A. (3·2° F.) at Wick.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.
		m/s		m/s		m/s		m/s		m/s		m/s		m/s		m/s
South	5	2·2	4	1·8	3	0·9	2	0·8	2	2·8	1	1·5	4	1·2	2	1·1
North	2	2·7	3	1·3	4	2·5	4	1·8	5	2·7	5	2·8	2	2·4	3	2·4
West	5	3·2	5	4·2	3	1·5	3	1·6	7	2·3	2	3·9	5	4·4	5	1·9
East	1	1·2	2	1·7	4	1·3	4	1·1	0	—	4	1·6	2	1·1	1	0·6
Calm	0	—	0	—	¼	—	¼	—	0	—	0	—	0	—	1	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).

DISTRICTS OF THE BRITISH ISLES.

	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ... Warmth ...	Unusual	Unusual	Moderate	Deficient	Moderate	Deficient	Unusual	Moderate	Moderate	Unusual	Unusual	Moderate
Rainfall ...	Light	Light	Moderate	Moderate	Moderate	Light	Light	Very light	Very light	Very light	Very light	Very light
Sunshine ...	Moderate	Scanty	Scanty	Scanty	Scanty	Moderate	Moderate	Scanty	Abundant	Moderate	Very abundant	Abundant

II.—THE SUMMER SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SUMMER. 7 weeks from June 4th, 1916.												
Warmth ...	1, 1, 5	1, 0, 6	0, 1, 6	0, 0, 7	0, 1, 6	0, 0, 7	1, 0, 6	0, 2, 5	0, 1, 6	1, 1, 5	1, 1, 5	0, 1, 6
Rainfall ...	3, 2, 2	4, 2, 1	3, 4, 0	2, 5, 0	2, 4, 1	2, 4, 1	3, 2, 2	2, 3, 2	3, 1, 3	0, 5, 2	3, 2, 2	1, 3, 3
Sunshine ...	0, 3, 4	1, 0, 6	0, 0, 7	0, 1, 6	0, 0, 7	0, 2, 5	1, 2, 4	1, 0, 6	1, 2, 4	1, 2, 4	2, 1, 4	1, 3, 3

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1° A. = increment of $\frac{9}{5}$° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour

(8763—19.) Wt. 79a—736. 450. 7/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.	—	in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.																							
p Baltasound	*31*	—	—	—	—	—	—	—	—					•	•		•	•	•	•	•	•	*Baltasound.*
a, Islands .. a Lerwick	54	60	21, 22	48	16, 18	57·1	49·3	52·9	+ 0·5	3	0·31	8	—	4·0	- 0·5	23	•	•	•	•	•	•	Deerness.
a Stornoway	51	72	22nd	50	17th	63·3	53·1	57·8	+ 3·5	5	0·21	5	- 13	4·6	0·0	27	•	•	•	•	•	•	Stornoway
a Castlebay, Barra Isd.	*37*	*63*	*22nd*	*51*	*17–20*	*58·4*	*52·0*	*55·0*	*+ 0·3*	*6*	*0·43*	*11*	—	*4·3*	—	*25*	•	•	•	•	•	•	*Castlebay.*
a Wick	81	62	20th	47	18th	57·9	49·9	53·6	- 0·8	4	0·52	13	- 2	•	•	•	•	•	•	•	•	•	
b, Main- p Strathpeffer	200	81	22nd	50	18th	68·6	53·7	60·6	+ 4·5	3	0·11	3	- 13	3·7	- 0·5	22	•	•	•	•	•	•	Strathpeffer.
land. p Glencarron	500	74	22nd	44	16th	63·1	50·1	56·2	+ 2·3	4	0·45	11	- 21	•	•	•	•	•	•	•	•	•	
p Fort Augustus	68	80	22nd	48	18th	68·1	54·0	60·6	+ 4·7	4	0·13	3	- 14	3·6	+ 0·4	21	•	•	•	•	•	•	Fort Augustus.
p Fort William	171	79	22nd	47	18th	66·3	52·0	58·7	+ 2·5	5	0·12	3	- 26	•	•	•	•	•	•	•	•	•	
1. SCOTLAND, E.																							
p Gordon Castle	101	79	22nd	44	18th	66·7	52·7	59·2	+ 2·5	4	0·33	8	- 12	2·5	—	15	0	32	57·9	-0·1	53·1	-1·1	Crathes.
a Nairn	*82*	*75*	*22nd*	*47*	*18th*	*66·1*	*51·7*	*58·4*	*+ 1·8*	*3*	*0·21*	*5*	*- 9*	*3·9*	—	*23*	•	•	•	•	•	•	*Gordon Castle.*
a Nairn	82	75	22nd	47	18th	66·1	51·7	58·4	+ 1·8	3	0·21	5	- 9	3·7	—	22	•	•	•	•	•	•	Nairn.
a Aberdeen	46	69	21st	44	18th	64·0	52·3	57·7	+ 1·3	4	0·68	17	+ 1	3·8	- 1·4	22	•	•	•	•	51·3	-1·5	Aberdeen.
a Balmoral	930	77	22nd	38	19th	65·9	48·7	56·7	+ 2·4	6	0·58	15	- 2	•	•	•	0	36	•	•	•	•	Balmoral.
p Crieff	432	78	22nd	43	18th	69·9	53·7	61·2	+ 3·3	4	0·11	3	- 14	2·8	—	17	•	•	•	•	•	•	Balruddery.
a Leith	18	71	20th	47	18th	65·6	52·9	58·8	+ 0·4	3	0·29	7	- 8	•	•	•	•	•	•	•	•	•	
a West Linton	769	74	22nd	43	18th	64·3	50·3	56·8	+ 2·2	3	0·19	5	—	*2·1*	—	*13*	0	39	•	•	•	•	*West Linton.*
p Marchmont	498	75	22nd	44	18th	67·6	51·1	58·8	+ 2·3	2	0·54	14	- 5	3·4	- 2·1	20	0	39	•	•	•	•	Marchmont.
a Edinburgh	*441*	*71*	*20th*	*48*	*18th*	*64·9*	*53·3*	*58·7*	—	*2*	*0·25*	*6*	—	3·8	—	23	0	43	•	•	•	•	Edinburgh.
6. a, SCOTLAND, W.																							
a Poltalloch	132	75	22nd	45	18th	63·9	53·0	58·1	+ 0·6	4	0·32	8	- 15	•	•	•	•	•	•	•	•	•	
p Glasgow Observatory	180	78	22nd	48	18th	67·4	54·1	60·3	+ 2·8	4	0·10	3	- 15	3·8	- 0·8	23	0	41	•	•	•	•	Glasgow.
p Rothesay	170	76	22nd	46	18th	66·0	52·0	58·5	+ 1·2	4	0·12	3	- 20	*6·3*	—	*33*	0	41	59·1	•	54·1	-0·9	*Rothesay.*
a Kilmarnock	90	80	22nd	42	18th	71·0	51·6	60·6	+ 3·0	4	0·53	13	—	*4·1*	—	*25*	•	•	57·2	•	52·9	•	*Kilmarnock.*
a Colmonell	170	78	22nd	45	18th	66·9	53·0	59·5	+ 2·3	3	0·09	2	- 17	•	•	•	0	42	•	•	•	•	
a Dumfries	160	77	22nd	46	18th	68·0	53·3	60·1	+ 1·4	4	0·26	7	- 12	*3·4*	—	*21*	0	41	58·7	•	55·7	•	*Dumfries.*
Eskdalemuir	*799*	*75*	*22nd*	*43*	*20th*	*64·9*	*50·3*	*57·1*	—	*5*	*0·48*	*12*	—	*2·8*	—	*17*	•	•	•	•	•	•	*Eskdalemuir.*
p Cally, Gatehouse	120	75	20, 21	40	18th	68·4	50·3	58·7	+ 0·9	1	0·01	0	- 22	•	•	•	•	•	•	•	•	•	
b. I. OF MAN. p Douglas	277	74	22nd	49	18th	65·1	54·4	59·4	+ 2·1	1	0·01	0·3	- 17	6·8	+ 0·4	42	0	45	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	73	20th	44	18th	63·4	51·7	58·5	+ 1·2	2	0·81	21	+ 5	3·6	—	22	0	40	57·4	-0·9	53·1	-1·8	Cockle Park.
a Tynemouth	71	71	20th	48	18th	62·7	52·8	57·3	- 0·4	3	0·67	17	+ 3	•	•	•	•	•	•	•	•	•	Tynemouth
p Durham	336	77	20th	40	18th	69·3	51·0	59·5	+ 0·7	5	0·64	16	- 1	4·2	- 1·2	26	0	36	•	•	•	•	Durham.
a North .. p Rounton	249	76	20th	40	18th	68·0	51·6	58·9	+ 1·3	4	0·29	7	- 9	•	•	•	0	37	59·0	•	•	•	Rounton.
a West Witton	*605*	*75*	*20th*	*44*	*18th*	*69·3*	*53·6*	*60·9*	—	*4*	*0·26*	*7*	—	•	•	•	0	40	59·1	•	52·0	•	*West Witton.*
p Scarborough†	100	66	20th	48	18th	61·7	53·0	57·1	- 1·6	3	0·49	12	- 2	2·5	—	15	•	•	•	•	53·0	•	Scarborough.
p York	56	75	20th	48	18th	70·7	55·7	62·7	+ 2·6	4	0·39	10	- 4	4·0	- 1·7	25	•	•	59·5	+0·8	55·0	-0·4	York.
a Spurn Head	26	67	20th	49	18th	62·4	52·5	57·0	- 2·7	3	0·35	9	- 1	*3·0*	—	*18*	•	•	•	•	•	•	*Spurn Head.*
b, South .. a Lincoln	58	72	20th	49	18th	67·9	53·6	60·3	- 0·8	3	0·17	4	- 9	•	•	•	•	•	59·9	-0·4	55·8	+0·1	Lincoln.
a Fulbeck	180	74	20th	48	18th	67·7	51·2	58·9	- 1·9	5	0·27	7	- 6	4·0	—	25	?	?	60·7	-3·3	54·8	-2·5	Rauceby.
														4·7	—	29	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																							
p Cromer	196	68	20, 21	50	18th	63·9	52·6	57·9	- 2·1	2	0·18	5	—	3·1	—	19	•	•	•	•	•	•	Cromer.
p Little Massingham	280	70	20th	48	18th	64·4	50·4	56·9	- 3·7	3	0·49	13	- 2	3·7	- 2·8	23	0	43	•	•	•	•	Lit. Massingham.
a, North .. a Yarmouth	13	69	21st	51	18th	63·3	53·6	58·1	- 2·1	3	0·33	8	- 6	3·5	—	22	•	•	60·0	-4·2	55·9	-4·4	Yarmouth.
a Norwich	93	73	21st	51	18th	66·6	53·1	59·4	- 0·9	4	0·30	8	—	*1·1*	—	*7*	0	48	61·8	•	•	•	*Norwich.*
a Geldeston	37	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	0	48	•	•	•	•	Geldeston.
p Cambridge	41	74	20th	49	20th	68·3	52·3	59·7	- 2·2	3	0·58	15	+ 2	4·0	- 2·7	25	0	44	60·9	-1·8	57·0	-1·7	Cambridge.
a Clacton-on-Sea	54	67	21st	52	16, 18–21	65·1	52·9	58·6	- 3·1	2	0·28	7	—	4·6	—	29	0	48	61·1	+0·4	58·1	-0·9	Clacton.
b, South .. a Rothamsted	424	72	21st	49	20th	66·1	51·7	58·4	- 2·0	3	0·39	10	- 4	5·0	- 0·9	31	0	43	58·2	•	•	•	Rothamsted.
p Tottenham	51	75	21st	53	18, 20	69·0	55·0	61·5	- 0·5	3	0·17	4	—	5·9	—	37	0	48	•	•	57·7	-2·2	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. a Harrogate	479	74	20th	44	18th	67·4	52·7	59·5	+ 2·0	4	0·40	10	- 4	5·1	—	31	0	42	58·0	+1·3	54·8	0·0	Harrogate.
p Buxton	*987*	*73*	*22nd*	*47*	*18th*	*63·7*	*51·3*	*57·1*	*+ 0·2*	*4*	*0·34*	*9*	*- 13*	*3·9*	—	*24*	0	45	56·0	-2·8	52·0	-1·2	*Buxton.*
a Bawtry	65	75	20th	49	18, 20	68·3	53·1	60·2	0·0	4	0·25	6	- 7	3·7	•	23	0	48	57·6	-1·0	53·0	-0·9	Sheffield.
a Nottingham	82	73	20th	49	20th	67·7	52·6	59·6	- 1·1	2	0·13	3	- 10	4·4	- 1·0	27	0	42	59·1	•	55·0	•	Worksop.
b, East .. p Birmingham, Edgbsn.	535	72	21, 22	50	19th	67·4	53·3	59·9	- 0·3	2	0·14	4	- 9	3·7	—	23	0	45	59·1	-1·7	55·2	-0·9	Nottingham.
a Raunds	203	73	21st	46	20th	68·1	49·6	58·2	- 3·0	3	0·14	4	—	3·2	—	20	0	41	54·8	-1·5	51·0	-1·1	Birmingham.
p Oxford	208	78	21st	51	16, 18–20	69·7	52·6	60·6	- 1·0	3	0·31	8	- 6	*4·4*	—	*28*	0	36	61·1	•	56·0	•	*Raunds.*
														5·9	- 0·6	37	0	45	•	•	•	•	Oxford
a Cheadle	646	72	21, 22	48	18th	66·0	52·0	58·5	+ 0·2	3	0·81	21	+ 5	•	•	•	0	46	•	•	•	•	Cheadle.
c, West .. p Shrewsbury	191	76	21st	49	19th	70·0	53·6	61·2	+ 1·7	3	0·60	15	—	•	•	•	0	45	•	•	•	•	Shrewsbury.
a Hereford§	291	79	21st	45	19, 20	72·0	52·0	61·3	+ 1·0	3	0·46	12	- 1	*5·6*	—	*35*	0	38	61·6	•	57·4	•	*Malvern.§*
a Bath	66	79	21st	48	19, 20	71·4	53·6	61·9	+ 0·9	1	0·08	2	- 13	5·5	—	35	•	•	62·0	-1·5	58·2	-1·8	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	77	21st	44	20th	69·9	50·9	59·7	0·0	2	0·32	8	- 6	6·8	—	43	0	45	62·8	-1·1	58·8	-0·5	Worthing.
a Margate	53	71	21st	53	19, 20	64·7	54·7	59·4	- 2·5	2	0·11	3	- 8	6·6	+ 0·5	42	0	38	61·3	•	55·5	•	Marlborough.
a Wisley, Surrey	150	76	21st	48	20th	69·4	52·7	60·5	- 2·2	3	0·20	5	—	5·0	- 1·7	31	0	45	62·8	+1·2	60·2	+2·3	Margate.
p Salisbury (Wilton)	180	81	22nd	49	19, 20	74·0	53·4	63·0	+ 0·9	1	0·05	1	- 12	5·8	—	36	0	49	59·7	-2·7	55·8	-2·9	Wisley.
a Tunbridge Wells	354	75	21st	48	19, 20	68·6	51·6	59·5	- 1·4	3	0·38	10	- 3	•	•	•	0	43	62·7	•	57·1	•	Salisbury.
														5·4	- 1·4	34	0	40	60·0	-3·3			Tunbridge Wells.
a Dungeness	21	66	20th	47	19th	63·0	52·0	57·1	- 4·0	0	0·00	0	- 10	•	•	•	•	•	•	•	•	•	Littlestone.
p Hastings	178	70	20th	50	16, 19	65·7	53·6	59·2	- 1·9	2	0·36	9	- 3	6·1	- 1·7	39	0	48	62·5	•	58·9	•	Hastings.
p Southampton	64	77	21st	51	16th	71·0	54·9	62·4	- 0·6	2	0·11	3	- 10	6·5	- 1·7	41	0	43	•	•	•	•	Southampton.
a Ventnor	59	71	20th	54	16, 19	68·1	56·6	62·0	+ 0·1	1	0·02	0·4	- 12	6·5	- 0·6	41	•	•	•	•	•	•	Ventnor.
LONDON. p Kew Observatory	18	75	21st	52	16, 20	68·4	54·0	60·7	- 1·5	3	0·33	9	- 4	5·4	- 1·3	34	0	43	60·3	-1·7	56·1	-1·1	Kew Obs.
a Westminster	*27*	*76*	*21st*	*50*	*16th*	*70·1*	*53·2*	*61·1*	*- 0·7*	*2*	*0·15*	*4*	*- 9*	*4·9*	*- 1·0*	*31*	0	47	•	•	•	•	*Westminster.*
a Greenwich	*155*	*77*	*21st*	*50*	*20th*	*70·6*	*52·7*	*61·0*	*- 1·7*	*3*	*0·21*	*5*	*- 8*	*5·3*	*- 2·3*	*33*	0	40	•	•	•	•	*Greenwich.*
a Hampstead	*450*	*74*	*21st*	*49*	*16, 18*	*67·5*	*51·7*	*59·1*	—	*3*	*0·21*	*5*	—	*5·6*	—	*35*	0	35	•	•	•	•	*Hampstead.*
a Camden Square	*110*	*78*	*20, 21*	*51*	*16th*	*72·9*	*54·0*	*62·8*	—	*3*	*0·19*	*5*	—	*5·1*	—	*32*	0	48	•	•	•	•	*Camden Square.*
7. a, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	74	22nd	47	18th	65·0	52·7	58·4	+ 1·6	4	0·12	3	- 19	3·7	—	23	•	•	•	•	•	•	Hoylake.
p Newton Rigg	559	79	22nd	46	18, 20	68·1	51·0	59·0	+ 2·2	4	0·22	6	- 12	3·0	- 2·7	18	0	45	57·0	•	53·0	•	Aspatria.
p Stonyhurst	375	77	22nd	51	17th	67·4	54·4	60·5	+ 2·4	4	0·30	8	- 14	3·3	—	20	0	41	59·1	-0·7	53·7	-1·3	Newton Rigg.
p Blackpool	66	73	22nd	52	18th	65·3	55·9	60·3	+ 1·1	2	0·11	3	- 16	3·9	- 1·9	24	0	50	•	•	•	•	Stonyhurst.
a Southport	37	72	22nd	52	18th	63·4	55·4	59·1	- 0·1	2	0·08	2	- 14	3·7	- 2·3	23	0	48	60·2	•	55·0	•	Blackpool.
a Liverpool (Bidston)	188	74	22nd	53	18th	63·4	54·9	58·9	- 1·4	1	0·04	1	- 14	3·9	- 2·5	24	0	51	62·3	-1·4	58·6	-1·6	Southport.
a Hawarden Bridge	22	79	21st	52	18th	63·6	54·7	58·8	- 1·3	1	0·03	1	- 11	*3·5*	—	*22*	•	•	•	•	•	•	*Liverpool.*
p Manchester (Whit. Pk.)	125	77	22nd	52	18th	66·0	54·7	60·0	+ 0·1	3	0·18	5	- 10	*3·3*	—	*20*	0	47	59·1	-1·0	57·1	-0·1	*Manchester (City)*
														2·1	*- 2·9*	*13*	•	•	•	•	•	•	" *(Whit. Park)*
b, NORTH WALES.																							
p Llandudno	71	73	22nd	53	17, 18	64·1	55·3	59·4	- 0·3	1	0·05	1	- 12	5·6	- 0·4	35	•	•	•	•	•	•	Llandudno.
a Holyhead	15	69	22nd	52	18th	64·0	53·9	58·6	+ 0·4	1	0·04	1	- 14	*7·4*	—	*46*	•	•	•	•	•	•	*Holyhead.*
p Bettws-y-Coed	148	79	22nd	47	18th	69·1	52·6	60·3	+ 1·3	0	0·00	0	—	6·2	—	39	•	•	57·1	-1·0	52·6	-1·4	Bettws-y-Coed.
														6·7	—	42	•	•	•	•	•	•	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.							Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.										Grass Min.		Earth 1 ft.		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	Daily Mean	Deviation from Normal.	Percentage of possible duration.	Ground Frosts.	Lowest Reading.	Mean.	Deviation from average.	Mean.	Deviation from average	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														6·9	—	43	•	•	•	•	•	•	
a Llangammarch Wells	550	75	22nd	40	18th	68·8	50·4	59·0	+ 0·9	2	0·03	1	—	6·6	—	41	0	38	59·1	+1·3	53·0	0·0	Aberystwyth.
a Pembroke	149	71	21st	48	18th	64·3	54·4	59·0	+ 0·7	1	0·01	0·3	- 14	7·7	+ 1·1	48	•	•	•	•	•	•	Llangammarch.
p Cardiff	202	76	21st	50	19th	69·6	54·7	61·6	+ 0·6	1	0·04	1	- 18	*8·6*	—	*54*	0	47	62·3	+1·9	56·1	-2·1	Pembroke.
b, ENGLAND, S.W.																							*Cardiff.*
a Clifton	229	78	21st	50	19th	72·0	54·3	62·5	+ 0·7	1	0·06	2	- 15	*6·9*	—	*43*	0	47	•	•	•	•	
a Shaftesbury	722	75	21st	50	19th	69·4	54·0	61·2	+ 1·5	1	0·04	1	- 14	•	•	•	•	•	61·6	•	56·8	•	*Clifton.*
a Arlington	613	76	22nd	46	18th	67·7	51·4	59·0	+ 0·8	1	0·22	6	- 17	•	•	•	•	•	•	•	•	•	Shaftesbury.
a Newquay	*190*	*65*	*22nd*	*47*	*19th*	*61·4*	*53·6*	*56·7*	- *3·5*	*1*	*0·02*	*1*	- *12*	8·1	+ 1·2	52	•	•	61·6	•	56·9	•	Arlington.
a Cullompton	202	78	20, 21	46	20th	73·9	52·1	62·2	+ 1·8	1	0·06	2	- 15	8·7	+ 2·6	55	0	43	62·4	•	•	•	Newquay.
a Portland Bill	12	67	20, 21, 22	54	16, 19	65·0	55·9	60·1	0·0	2	0·13	3	—	*6·8*	—	*43*	•	•	•	•	•	•	Cullompton.
p Plymouth	116	72	22nd	51	18, 19	68·9	54·9	61·4	+ 0·4	0	0·00	0	- 17	8·1	+ 1·3	52	•	•	62·9	-2·2	57·2	•	*Weymouth.*
a Falmouth	167	72	22nd	51	18, 19	67·9	54·6	60·8	+ 0·6	0	0·00	0·1	- 17	9·6	+ 2·3	61	0	42	64·2	•	59·5	•	Plymouth.
9. IRELAND. N.																							Falmouth.
a, West .. { *a* Malin Head	208	70	22nd	51	17th	60·3	53·3	56·6	+ 0·2	4	0·07	2	- 15	*4·4*	•	*27*	•	•	•	•	•	•	*Malin Head.*
a Blacksod Point ..	?	65	21st	49	17, 18	60·4	52·7	56·3	- 1·2	3	0·12	3	- 14	•	•	•	•	•	•	•	•	•	•
p Markree Castle ..	122	78	21st	39	18th	68·1	50·3	58·6	+ 1·7	4	0·18	5	- 15	4·3	+ 0·1	26	0	36	60·0	•	54·5	•	Markree Castle.
a Birr Castle	175	80	22nd	41	18th	68·7	52·3	59·9	+ 1·5	2	0·12	3	- 14	*4·4*	- *0·1*	*27*	•	•	•	•	•	•	*Birr Castle.*
b, East .. { *p* Armagh	196	79	22nd	43	18th	69·1	53·7	60·9	+ 3·2	3	0·06	2	- 15	4·3	- 0·3	26	0	37	59·0	-2·5	54·9	-2·2	Armagh.
a Donaghadee	101	70	19, 20, 22	50	18th	64·6	53·0	58·4	+ 0·9	1	0·01	0·3	- 17	•	•	•	0	39	61·1	+0·1	56·1	-1·2	Trinity Coll.
10. IRELAND, S.														5·6	+ 0·2	35	0	35	•	•	•	•	Phœnix Park.
p Dublin, City	47	72	21st	47	18th	67·6	56·6	61·7	+ 1·3	1	0·02	1	- 13	•	•	•	0	44	•	•	•	•	Dublin City.
a, East .. { *a* Kilkenny	212	78	22nd	43	19th	70·1	52·9	60·9	+ 2·0	3	0·19	5	- 11	•	•	•	•	•	•	•	•	•	•
a Waterford	20	77	21, 22	47	18th	70·0	55·4	62·2	+ 2·5	0	0·00	0	- 19	•	•	•	•	•	•	•	•	•	•
a Seskin, Carrick-on-Suir	*541*	*73*	*21, 22*	*44*	*18th*	*68·3*	*53·1*	*60·2*	—	*1*	*0·01*	*0·3*	—	*6·2*	—	*39*	0	36	•	•	•	•	*Seskin.*
a Birr Castle	175	80	22nd	41	18th	68·7	52·3	59·9	+ 1·5	2	0·12	3	- 14	4·4	- 0·1	27	•	•	•	•	•	•	Birr Castle.
a Foynes	50	76	21, 22	45	18th	68·7	53·3	60·5	+ 1·7	0	0·00	0·1	- 18	•	•	•	•	•	•	•	•	•	•
b, West .. { *a* Cahir	199	79	22nd	43	18th	71·7	53·0	61·7	+ 2·7	1	0·01	0	—	•	•	•	•	•	•	•	•	•	•
a Killarney	174	80	21, 22	45	18th	74·1	52·9	62·8	+ 4·3	0	0·00	0	- 19	•	•	•	•	•	•	•	•	•	•
a Valencia	30	68	21, 22	46	18th	64·7	51·4	57·6	- 0·8	0	0·00	0·1	- 22	10·3	+ 5·4	64	•	•	•	•	•	•	Valencia.
a Roche's Point	32	70	19th	48	18th	67·6	53·3	60·0	+ 0·7	2	0·06	2	- 14	8·8	—	55	•	•	•	•	•	•	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	74	22nd	53	19th	65·4	55·4	60·1	- 0·6	3	0·07	2	- 12	9·8	+ 2·8	63	•	•	•	•	•	•	Scilly.
a Jersey, St. Aubins ..	25	75	20th	50	20th	69·7	55·4	62·1	- 0·1	1	0·01	0·3	- 13	8·7	+ 0·6	56	•	•	•	•	•	•	St. Heliers.
a Guernsey (Villa Carey)	180	73	20, 22	51	19th	68·7	54·4	61·1	- 0·2	1	0·03	1	- 11	8·6	+ 0·3	55	0	41	63·5	+0·2	60·2	+0·3‖	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, July 22nd, 1916.

DISTRICT AND STATION.	Height.			Distribution of Wind.								Extreme Velocities.			
				Gales, force 8 or more.		High Winds, forces 8 and 7.		Fresh or Moderate Winds, forces 4 and 5.	Light Winds, forces 2 and 3.	Calms and Light Airs, forces 0 and 1.	No Record.	Highest Hourly Wind.			Highest Gust with Date and Time, G.M.T.
	Above Mean Sea Level.	Above Ground.	Above Building.	Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Velocity.		Date and Hour, G.M.T.	
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.		m/s. d. h. m.
1. SCOTLAND, E.															
Dyce	305	75	‡15**	—	—	—	—	5	42	121	0	—	6	17th 13h.	14 17th 10 . 23
Aberdeen*	153	105	37 † / 52 †	—	—	—	—	10	53	105	0	NW.	8	17th 12h.	11 17th 11 . 11
Edinburgh	485	39	31	—	—	—	—	39	94	35	0	WSW.	7	20th 5h.	10 19th 1 . 32
6. SCOTLAND, W.															
Eskdalemuir	850	50	22	—	—	—	—	8	70	90	0	WNW.	9	19th 2h.	14 19th 1 . 45
Paisley	188	81	52	—	—	—	—	2	128	38	0	NW. by N.	7	17th 17h.	12 17th 17 . 14
2. ENGLAND, N.E.															
Alnwick Castle	340	70	17	—	—	—	—	—	35	124	9	N.	4	17th 11h.	10 17th 8 . 17
South Shields	72	61	12	—	—	—	—	14	90	61	3	W. by N.	7	19th 1h.	10 19th 1 . 59
Spurn Head	66	40	‡	—	—	—	—	8	101	59	—	N.	7	18th 24h.	9 16th 0 . 36
3. ENGLAND, E.															
Gorleston	52	42	‡	—	—	—	—	4	71	63	30	—	7	18th 8h.	10 18th 8 . 24
Shoeburyness	103	90	‡	—	—	—	—	4	129	35	0	E. by N.	6	18th 2h.	11 16th 10 . 38
4. MIDLAND COUNTIES.															
Benson	270	84	‡	—	—	—	—	—	111	57	0	NNE.	5	17th 24h.	9 16th 14 . 27
5. ENGLAND, S.E.															
Dover	271	40	‡	—	—	—	—	14	71	83	0	—	8	18th 12h.	11 18th 6 . 25
Warlingham	642	33	‡	—	—	—	—	—	84	84	0	—	4	18th 5h.	8 18th 4 . 50
Brighton	261	53	6	—	—	—	—	5	110	53	0	—	7	18th 7h.	11 18th 6 . 37
Kew Observatory ..	82	65	6 † / 22 †	—	—	—	—	—	114	54	0	NE.	5	18th 9h.	8 18th 9 . 8
South Kensington ..	123	92	30	—	—	—	—	—	100	68	0	NNE.	4	18th 13h.	7 18th 2 . 42
7. ENGLAND, N.W.															
Carnforth	246	56	23	—	—	—	—	—	41	127	0	SW. by W.	5	18th 14h.	9 18th 14 . 26
Southport	80	62	48	—	—	—	—	—	76	15	0	W. by S.	10	19th 2h.	13 19th 1 . 25
Holyhead*	60	40	‡	—	—	17th	3	63	74	28	0	N. by W.	11	17th 20h.	15 17th 20 . 38
8. ENGLAND, S.W.															
Pendennis Castle§ ..	256	65	24	—	—	—	—	50	87	31	0	N.	10	18th 7h.	14 18th 7 . 6
Plymouth	185	88	2	—	—	—	—	13	108	47	0	—	6	17th 15h.	11 17th 15 . 10
Lyme Regis	556	61	‡	—	—	—	—	1	69	98	0	—	6	18th 1h.	9 18th 1 . 17
10. IRELAND, S.															
Quilty	100	40	‡	—	—	—	—	16	84	51	17	—	8	17th 15h.	12 16th 1 . 55
Weaver Pt.	160	30	‡	—	—	—	—	33	108	27	0	—	9	17th 4h.	12 17th 3 40
11. ENGLISH CHANNEL.															
Scilly*	150	32 / 19	‡	—	—	—	—	13	69	86	0	W.	7	16th 14h.	9 18th

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.

† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 35 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

TWENTY-NINTH WEEK—July 16th to July 22nd, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L
			Means of				Accumulated Number of Day-Degrees.												
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	81	44	90·5	83·9	87·0	+ 1·2	106	+ 15	0	0	4	− 1	0·26	7	− 13	4·0	−0·1	23	1020
Eastern.																			
1. SCOTLAND, EAST ...	79	38	92·1	83·9	87·7	+ 0·9	116	+ 12	0	0	4	0	0·37	9	− 10	3·3	−1·8	20	1020
2. ENGLAND, N.E.	77	40	92·1	84·4	87·9	+ 0·1	118	+ 1	0	0	4	+ 1	0·45	11	− 3	3·8	−2·4	23	1021
3. ENGLAND, EAST ...	75	48	91·8	84·5	87·9	− 1·0	118	− 13	0	0	3	0	0·34	9	− 6	4·3	−2·4	27	1021
4. MIDLAND COUNTIES ...	79	44	93·4	84·4	88·6	0·0	127	0	0	0	3	0	0·33	9	− 6	4·5	−1·3	28	1021
5. ENGLAND, S.E.	81	44	93·2	84·9	88·8	− 0·6	129	− 8	0	0	2	− 1	0·19	5	− 9	6·0	−0·8	38	1021
Western.																			
6. SCOTLAND, WEST ...	80	40	92·5	84·5	88·2	+ 1·1	122	+ 14	0	0	3	− 1	0·18	5	− 16	5·3	−0·1	32	1020
7. ENGLAND, N.W. ...	79	46	91·6	85·2	88·2	+ 0·2	122	+ 3	0	0	2	− 2	0·11	3	− 15	4·5	−1·1	28	1022
8. ENGLAND, S.W.	78	40	93·4	85·1	88·9	+ 0·3	131	+ 5	0	0	1	− 3	0·06	2	− 17	8·0	+1·9	50	1022
9. IRELAND, NORTH ...	80	39	91·4	84·4	87·7	+ 0·6	116	+ 8	0	0	3	− 2	0·09	3	− 17	4·3	0·0	26	1022
10. IRELAND, SOUTH ...	80	41	93·7	84·9	89·0	+ 0·9	132	+ 12	0	0	1	− 4	0·04	1	− 17	7·3	+2·4	46	1023
11. ENGLISH CHANNEL ...	75	50	92·9	85·8	89·2	− 0·2	134	− 3	0	0	2	− 2	0·04	1	− 13	9·0	+1·5	58	1022

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 7 Weeks, June 4th to July 22nd, 1916.

0. SCOTLAND, NORTH ...	81	35	87·0	81·3	84·0	− 1·0	479	− 95	0	− 2	29	+ 1	4·52	116	− 11	2·8	−2·0	16	1012
Eastern.																			
1. SCOTLAND, EAST ...	79	30	88·1	80·8	84·2	− 1·7	499	−150	2	+ 1	31	+ 7	7·23	183	+ 78	3·0	−2·7	17	1012
2. ENGLAND, N.E.	77	32	89·0	81·8	85·2	− 1·6	584	−141	0	0	28	+ 7	4·06	102	+ 21	3·8	−2·5	23	1012
3. ENGLAND, EAST ...	75	36	89·9	82·4	85·9	− 1·9	650	−167	0	0	29	+ 9	3·63	92	+ 7	4·3	−2·6	26	1014
4. MIDLAND COUNTIES ...	79	34	90·2	81·8	85·8	− 1·8	636	−168	0	0	25	+ 5	3·36	86	− 2	3·9	−2·3	24	1014
5. ENGLAND, S.E.	81	35	90·4	82·5	86·2	− 2·1	672	−185	0	0	24	+ 5	3·20	82	+ 2	5·3	−1·8	33	1014
Western.																			
6. SCOTLAND, WEST ...	80	32	89·2	81·6	85·2	− 1·3	584	−112	0	0	27	+ 2	4·70	120	− 10	5·1	−1·0	30	1012
7. ENGLAND, N.W. ...	79	37	88·9	82·7	85·6	− 1·6	622	−136	0	0	23	0	3·83	97	− 5	4·6	−1·8	28	1014
8. ENGLAND, S.W.	78	35	89·7	82·6	85·9	− 1·7	648	−151	0	0	22	− 1	3·95	101	− 1	6·1	−0·7	37	1015
9. IRELAND, NORTH ...	80	35	88·4	81·8	84·9	− 1·6	562	−138	0	0	26	− 3	3·47	90	− 27	4·7	−0·5	28	1014
10. IRELAND, SOUTH ...	80	35	90·2	82·7	86·2	− 1·1	675	− 99	0	0	28	+ 3	4·18	106	− 4	5·9	+0·2	36	1016
11. ENGLISH CHANNEL ...	75	40	89·9	83·9	86·7	− 1·5	719	−132	0	0	21	− 2	1·92	49	− 30	8·3	+0·2	46	1016

THE YEAR.—Aggregates, &c., for the Period of 29 Weeks, January 2nd to July 22nd, 1916.

0. SCOTLAND, NORTH ...	81	20	82·6	77·0	79·7	− 0·1	898	−124	454	−103	144	+12	30·82	782	+126	2·8	−0·8	21	1009
Eastern.																			
1. SCOTLAND, EAST ...	79	7	83·1	76·4	79·6	− 0·4	966	−214	585	− 35	132	+24	23·85	607	+217	3·2	−1·0	25	1009
2. ENGLAND, N.E.	81	20	84·3	77·6	80·8	+ 0·1	1247	− 30	379	− 96	115	+17	15·26	387	+ 89	3·5	−1·0	27	1011
3. ENGLAND EAST ...	83	24	85·1	78·0	81·5	+ 0·3	1434	− 74	353	−168	114	+19	15·49	391	+ 95	3·9	−0·9	30	1012
4. MIDLAND COUNTIES ...	83	21	85·2	77·5	81·2	0·0	1396	−127	405	−128	111	+17	16·18	413	+ 79	3·5	−0·8	27	1012
5. ENGLAND, S.E.	81	15	85·6	78·5	81·9	0·0	1545	− 79	294	− 87	111	+21	16·04	407	+ 84	4·4	−0·4	34	1013
Western.																			
6. SCOTLAND, WEST ...	80	17	83·9	77·5	80·6	− 0·3	1156	−132	365	− 60	131	+17	24·23	618	+ 36	3·9	−0·4	30	1011
7. ENGLAND N.W.	79	8	84·3	78·4	81·2	− 0·1	1297	− 85	310	− 76	117	+13	18·98	483	+ 70	3·7	−0·6	28	1012
8. ENGLAND, S.W.	79	17	84·9	78·6	81·7	− 0·3	1427	−137	279	− 22	117	+14	20·71	531	+ 70	4·4	−0·4	34	1013
9. IRELAND NORTH ...	80	18	84·0	77·7	80·8	− 0·5	1171	−189	334	− 11	137	+13	21·18	542	+ 68	3·7	−0·3	28	1011
10. IRELAND, SOUTH ...	80	20	85·2	78·6	81·8	− 0·4	1448	−145	244	− 15	144	+33	21·28	538	+ 34	4·2	−0·2	33	1014
11. ENGLISH CHANNEL ...	79	30	85·6	80·4	82·9	− 0·2	1692	− 78	85	− 24	118	+ 8	16·39	414	+ 32	5·2	−0·5	40	1014
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	m.m.	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics
South Kensington, S.W., July 27th, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 117

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.: or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 30. SUNDAY, JULY 23RD, TO SATURDAY, JULY 29TH, 1916

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE THIRTIETH WEEK OF 1916.

The generally fine, dry weather which set in during the preceding week continued over the Kingdom as a whole. Early in the period, however, there was much cloud in the south-east of England and on several days sea fog was reported from a considerable portion of the coast, especially from the eastern seaboard of Great Britain. The fine weather was broken temporarily by thunderstorms over a considerable area in Scotland and Ireland early in the week, and over the western and south-western districts of England on the 26th or 27th. At Bath, and also at Crathes, the storms were of unusual violence. Temperature was above the normal except in England East and South-East, the greatest deviation being about +2·5° A. (4·5° F.) in Scotland. The absolute maximum readings were recorded on rather irregular dates; in Scotland West on the 24th and in England North-West on the 26th the thermometer touched 301·5° A. (83° F.). Some of the minima were rather low; in England South-East and South-West the value was 277·5° A. (40° F.). In many localities the weather was quite rainless, and the total fall generally was either light or very light. Owing chiefly to fog and mist the number of hours of bright sunshine was only moderate in Scotland North, England East and South-East and in the English Channel. Elsewhere there was a marked excess over the normal. In England South-West and North-West the mean daily duration was 10 hours, while it decreased to 5 hours in England East and to 3·9 hours in Scotland North. The temperature of the sea surface water was about 1·1° A. (2° F.) above the average at Sheephaven, nearly as much above it at Burnmouth, and 1·1° A. (2° F.) below it at Wick.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.
		m/s		m/s		m/s		m/s		m/s		m/s		m/s		m/s
South	5	2·6	5	1·6	1	1·4	2	0·7	4	2·9	1	1·4	3	1·3	3	1·7
North	2	1·5	2	1·0	6	2·1	5	1·6	3	1·7	5	2·4	2	0·7	3	1·3
West	3	3·3	5	4·1	2	0·7	0	—	7	1·4	2	1·0	2	3·1	6	1·6
East	4	1·9	2	1·2	4	1·5	6	1·1	0	—	3	0·9	4	1·4	1	0·8
Calm	0	—	0	—	0	—	¼	—	0	—	1	—	1	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties.	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with normal for the time of year ... Warmth ...	Very unusual	Very unusual	Unusual	Deficient	Unusual	Moderate	Very unusual	Unusual	Unusual	Unusual	Unusual	Unusual
Rainfall ...	Moderate	Light	Very light	Very light	Very light	Nought	Very light	Very light	Very light	Very light	Very light	Nought
Sunshine ...	Moderate	Very abundant	Abundant	Moderate	Abundant	Moderate	Very abundant	Very abundant	Very abundant	Abundant	Very abundant	Moderate

II.—THE SUMMER SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SUMMER. 8 weeks from June 4th, 1916. Warmth ...	2, 1, 5	2, 0, 6	1, 1, 6	0, 0, 8	1, 1, 6	0, 1, 7	2, 0, 6	1, 2, 5	1, 1, 6	2, 1, 5	2, 1, 5	1, 1, 6
Rainfall ...	3, 3, 2	4, 1, 3	3, 4, 1	2, 5, 1	2, 4, 2	2, 4, 2	3, 2, 3	2, 3, 3	3, 1, 4	0, 5, 3	3, 2, 3	1, 3, 4
Sunshine ...	0, 4, 4	2, 0, 6	1, 0, 7	0, 2, 6	1, 0, 7	0, 3, 5	2, 2, 4	2, 0, 6	2, 2, 4	2, 2, 4	3, 1, 4	1, 4, 3

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.

Increment of 1° A. = increment of $\frac{9}{5}$° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour

(8810—19.) Wt. 79a—736. 450. 8/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts	Lowest Reading.	Mean.	Deviation from Average.	Mean.	Deviation from Average.	
0. SCOTLAND, N.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
p Baltasound	*31*	—	—	—	—	—	—	—	—	—	—	—	—										*Baltasound.*
a Lerwick	54	65	27th	49	23rd	58·4	50·6	54·2	+ 1·7	5	1·05	27	—	2·3	- 2·0	13	•	•	•	•	•	•	Deerness.
a Stornoway	51	68	25th	54	24, 28, 29	64·6	54·9	59·4	+ 4·9	3	0·33	8	- 11	2·2	- 2·3	13	•	•	•	•	•	•	Stornoway.
a Castlebay, Barra Isd.	*37*	*64*	*23rd*	*53*	*27th*	*61·1*	*55·1*	*57·9*	+ *3·0*	*3*	*0·16*	*4*	—	*3·8*	—	*23*	•	•	•	•	•	•	*Castlebay.*
a Wick	81	69	29th	49	28th	61·3	51·6	56·1	+ 1·5	0	0·00	0	- 16	•	•	•	•	•	•	•	•	•	
p Strathpeffer	200	79	26th	49	27th	71·1	54·6	62·3	+ 6·2	3	0·81	21	+ 5	5·2	+ 1·1	31	•	•	•	•	•	•	Strathpeffer.
p Glencarron	500	74	24th	48	28th	67·3	53·6	60·0	+ 5·9	4	0·73	19	- 15	•	•	•	•	•	•	•	•	•	
p Fort Augustus	68	81	23rd	46	28th	71·6	54·9	62·7	+ 6·4	4	0·69	17	- 1	5·9	+ 2·8	36	•	•	•	•	•	•	Fort Augustus.
p Fort William	171	80	24th	45	28th	72·7	53·4	62·4	+ 5·9	4	0·50	13	- 19	•	•	•	•	•	•	•	•	•	
1. SCOTLAND, E.																							
p Gordon Castle	101	77	26th	54	27th	72·0	55·7	63·3	+ 6·6	2	0·24	6	- 14	7·3	—	44	0	39	62·0	+3·7	54·8	+0·1	Crathes.
a Nairn	82	76	26th	51	28th	70·0	54·3	61·6	+ 5·9	3	1·04	26	+ 12	*4·9*	—	*30*	•	•	•	•	•	•	*Gordon Castle.*
a Aberdeen	46	79	29th	50	23rd	70·7	53·1	61·3	+ 4·8	1	0·04	1	- 15	5·0	—	30	•	•	•	•	•	•	Nairn.
a Balmoral	930	78	26th	48	27th	74·1	51·7	62·1	+ 8·0	3	0·11	3	- 15	8·2	+ 3·1	49	•	•	•	•	52·8	- 0·4	Aberdeen.
p Crieff	432	79	23rd	49	28th	74·4	52·4	62·6	+ 4·8	1	0·24	6	- 13	•	•	•	0	44	•	•	•	•	Balmoral.
														8·1	—	49	•	•	•	•	•	•	Balruddery.
a Leith	18	74	26th	51	28th	68·1	53·4	60·2	+ 1·8	0	0·00	0	- 16	•	•	•	•	•	•	•	•	•	
a West Linton	769	77	25th	42	28th	71·9	46·3	58·2	+ 3·6	0	0·00	0	—	*9·7*	—	*60*	0	33	•	•	•	•	*West Linton.*
p Marchmont	498	79	26th	48	29th	75·0	51·6	62·5	+ 6·0	0	0·00	0	- 20	10·8	+ 5·5	66	0	42	•	•	•	•	Marchmont.
a Edinburgh	*441*	*76*	*26th*	*50*	*28th*	*70·7*	*54·0*	*61·8*	—	*0*	*0·00*	*0*	—	10·0	—	61	0	45	•	•	•	•	Edinburgh.
6. *a*, SCOTLAND, W.																							
a Poltalloch	132	76	24th	54	23rd	69·4	58·1	63·4	+ 5·9	2	0·19	5	- 19	•	•	•	•	•	•	•	•	•	
p Glasgow Observatory	180	79	23rd	50	28th	71·4	55·3	62·8	+ 5·5	2	0·09	2	- 17	6·8	+ 2·3	42	0	40	•	•	•	•	Glasgow.
p Rothesay	170	78	23rd	50	28th	70·1	55·7	62·4	+ 5·1	2	0·09	2	- 23	*7·0*	—	*43*	0	45	64·9	•	56·4	+1·4	*Rothesay.*
a Kilmarnock	90	83	24th	44	28th	76·4	52·6	63·7	+ 6·1	0	0·00	0	—	7·7	—	47	•	•	62·3	•	54·4	•	*Kilmarnock.*
a Colmoneli	170	77	23rd	43	28th	72·9	51·6	61·5	+ 4·3	2	0·06	2	- 18	•	•	•	0	41	•	•	•	•	
a Dumfries	160	77	23rd	47	28th	73·0	53·7	62·7	+ 4·1	0	0·00	0	- 20	*9·6*	—	*59*	0	41	64·1	•	58·0	•	*Dumfries.*
Eskdalemuir	*799*	*76*	*23rd*	*43*	*28th*	*72·1*	*49·4*	*60·0*	—	*0*	*0·00*	*0·1*	—	*10·0*	—	*61*	•	•	•	•	•	•	*Eskdalemuir.*
p Cally, Gatehouse	120	78	23rd	42	28th	72·7	52·3	61·8	+ 4·2	1	0·04	1	- 22	•	•	•	•	•	•	•	•	•	
b. I. OF MAN. *p* Douglas	277	73	23, 24	51	28th	67·6	55·4	61·1	+ 3·8	0	0·00	0	- 19	9·6	+ 3·4	60	0	46	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	76	29th	45	23rd	68·9	50·1	58·9	+ 1·7	0	0·00	0	- 17	10·5	—	65	0	45	62·1	+3·7	55·6	+0·4	Cockle Park.
a Tynemouth	71	73	29th	50	23, 24	64·3	52·5	58·0	+ 0·3	0	0·00	0	- 15	•	•	•	0	45	•	•	•	•	Tynemouth.
p Durham	336	79	29th	46	24th	75·0	50·9	62·1	+ 3·4	0	0·00	0	- 17	10·2	+ 4·9	63	0	42	•	•	•	•	Durham.
a North ... Rounton	249	79	26th	48	23rd	73·9	51·4	61·9	+ 4·3	1	0·34	9	- 7	•	•	•	0	45	61·8	•	•	•	Rounton.
a West Witton	*605*	*78*	*25, 27*	*48*	*29th*	*74·9*	*52·6*	*63·0*	—	*0*	*0·00*	*0*	—	•	•	•	0	43	63·7	•	53·5	•	*West Witton.*
p Scarborough†	100	71	29th	49	26th	63·4	51·6	57·1	- 1·6	0	0·00	0	- 14	5·3	—	33	•	•	•	•	53·9	•	Scarborough.
p York	56	78	26th	50	23rd	75·0	52·7	63·1	+ 3·2	0	0·00	0	- 15	8·1	+ 2·5	51	•	•	62·6	+3·5	56·4	+0·3	York.
a Spurn Head	26	72	29th	50	23, 24, 26	61·7	51·4	56·2	- 3·4	5	0·11	3	- 7	*3·1*	—	*19*	•	•	•	•	•	•	*Spurn Head.*
b, South ... *a* Lincoln	58	78	27, 28	48	26th	73·2	52·1	61·9	+ 1·2	0	0·00	0	- 13	•	•	•	•	•	64·5	+3·5	56·5	+0·1	Lincoln.
a Fulbeck	180	81	27th	48	26th	74·4	51·6	62·2	+ 1·8	2	0·04	1	- 12	7·3	—	46	•	•	63·2	- 0·8	55·7	- 2·2	Rauceby.
														5·0	—	31	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																							
p Cromer	196	71	29th	48	26, 28	61·3	49·1	54·8	- 5·6	5	0·07	2	—	4·3	—	27	•	•	•	•	•	•	Cromer.
p Little Massingham	280	77	27, 29	48	26, 29	69·1	49·4	58·6	- 2·0	2	0·04	1	- 15	7·0	+ 0·6	45	0	46	•	•	•	•	Lit. Massingham.
a, North ... *a* Yarmouth	13	64	28th	51	26, 27	61·3	51·7	56·2	- 4·3	3	0·06	2	- 12	2·5	—	16	•	•	59·9	-5·2	56·0	-4·9	Yarmouth.
a Norwich	93	77	29th	50	26, 29	70·0	51·3	60·0	- 0·6	2	0·03	1	—	*5·6*	—	*36*	0	49	62·6	•	•	•	*Norwich.*
a Geldeston	37	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	Geldeston.
p Cambridge	41	80	27th	45	26th	71·6	51·4	60·8	- 0·9	0	0·00	0	- 13	5·3	- 1·4	34	0	40	61·9	-1·3	57·8	-1·5	Cambridge.
a Clacton-on-Sea	54	66	28th	51	24, 25	62·6	52·6	*57·3*	- 4·4	0	0·00	0	—	3·0	—	19	0	51	60·7	-0·2	58·8	-0·8	Clacton.
b, South ... *a* Rothamsted	424	77	27th	42	23rd	68·7	49·4	58·4	- 2·0	0	0·00	0	- 14	6·8	- 0·2	44	0	42	59·6	•	•	•	Rothamsted.
p Tottenham	51	78	27th	50	26th	70·4	53·1	61·2	- 2·1	0	0·00	0	—	6·4	—	41	0	49	•	•	58·8	-1·6	Tottenham.
4. MIDLAND COUNTIES.																							
a North ... *a* Harrogate	479	77	26th	49	23, 29	73·7	51·3	61·7	+ 4·2	0	0·00	0	- 14	10·3	—	65	0	45	61·3	+4·1	56·8	+1·5	Harrogate.
p Buxton	*987*	*76*	*25, 26*	*46*	*25th*	*72·1*	*50·4*	*60·5*	+ *3·6*	*0*	*0·00*	*0*	- *23*	*11·0*	—	*69*	0	40	62·9	+3·8	52·7	-1·1	*Buxton.*
a Bawtry	65	79	26th	50	23, 25, 26	73·9	51·4	61·9	+ 1·7	0	0·00	0	- 13	7·3	•	46	0	44	59·8	+0·5	54·0	-0·5	Sheffield.
a Nottingham	82	78	26, 27	48	26th	73·9	50·1	61·2	+ 0·6	1	0·08	2	- 11	7·1	+ 1·9	45	0	43	61·5	•	56·5	•	Worksop.
b, East ... *p* Birmingham, Edgbsn.	535	78	26th	50	23, 29	73·6	52·7	62·4	+ 2·5	0	0·00	0	- 13	7·4	—	47	0	44	62·4	+0·8	56·9	-0·7	Nottingnam.
a Raunds	203	81	27th	44	25th	73·4	48·1	59·9	- 1·3	1	0·01	0·2	—	9·4	—	60	0	37	57·9	+1·1	51·8	-0·9	Birmingham.
p Oxford	208	81	27th	46	25th	74·0	50·6	61·5	0·0	1	0·27	7	- 6	*6·9*	—	*44*	0	34	62·2	•	56·2	•	*Raunds.*
														9·3	+ 2·8	60	0	40	•	•	•	•	Oxford
a Cheadle	646	78	26, 27	49	25th	73·7	52·3	62·3	+ 4·1	0	0·00	0	- 17	•	•	•	0	42	•	•	•	•	Cheadle.
c, West ... *p* Shrewsbury	191	81	25, 26	45	29th	76·9	50·9	63·0	+ 3·5	0	0·00	0	—	•	•	•	0	40	•	•	•	•	Shrewsbury.
a Hereford§	291	80	26, 27	46	25th	76·9	51·1	63·1	+ 2·7	1	0·02	1	- 12	*11·5*	—	*73*	0	39	65·1	•	59·3	•	*Malvern.*§
a Bath	66	78	25, 27	45	25th	76·0	50·4	62·3	+ 1·4	1	0·29	7	- 8	8·5	—	54	•	•	64·7	+0·7	59·8	-0·7	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	79	27th	40	26th	75·9	44·4	59·1	- 0·5	0	0·00	0	- 14	6·7	—	44	0	48	63·9	-0·4	59·3	-0·4	Worthing.
a Margate	53	64	29th	53	24, 25	61·3	54·3	57·6	- 4·4	0	0·00	0	- 11	10·3	+ 4·2	66	0	37	62·8	•	56·4	•	Marlborough.
a Wisley, Surrey	150	80	29th	49	23rd	72·1	50·4	60·5	- 2·0	0	0·00	0	—	0·8	- 5·9	5	0	52	62·7	+0·3	60·8	+2·2	Margate.
p Salisbury (Wilton)	180	81	27, 28	43	25th	78·3	49·4	62·8	+ 0·9	0	0·00	0	- 13	6·5	—	42	0	36	60·5	-2·5	56·6	-2·7	Wisley.
a Tunbridge Wells	354	78	28, 29	50	28th	69·1	52·6	60·3	- 0·5	0	0·00	0	- 13	•	•	•	0	42	65·6	•	•	•	Salisbury.
														5·6	- 1·1	36	0	42	61·1	-2·7	57·8	•	Tunbridge Wells.
a Dungeness	21	69	28th	52	28th	63·0	53·7	58·0	- 3·3	1	0·01	0·2	- 10	•	•	•	•	•	•	•	•	•	Littlestone.
p Hastings	178	75	27th	52	23rd	65·1	54·6	59·5	- 1·7	1	0·02	1	- 12	5·0	- 2·7	32	0	48	62·8	•	59·1	•	Hastings.
p Southampton	64	81	29th	50	23rd	74·7	54·9	64·1	+ 1·1	0	0·00	0	- 14	10·0	+ 2·8	64	0	43	•	•	•	•	Southampton.
a Ventnor	59	77	29th	54	23rd	70·0	56·6	62·8	+ 0·6	0	0·00	0	- 12	9·0	+ 1·9	58	•	•	•	•	•	•	Ventnor.
LONDON, *p* Kew Observatory	18	78	27th	49	26th	71·1	52·7	61·3	- 0·7	0	0·00	0	- 13	6·4	- 0·3	41	0	43	61·5	-1·0	57·0	-0·8	Kew Obs.
a Westminster	*27*	*79*	*29th*	*51*	*23, 25, 26*	*77·3*	*53·6*	*61·8*	- *0·4*	*0*	*0·00*	*0*	- *13*	*6·2*	+ *0·4*	*40*	0	43	•	•	•	•	*Westminster.*
a Greenwich	*155*	*79*	*29th*	*47*	*26th*	*70·6*	*52·0*	*60·7*	- *2·6*	*0*	*0·00*	*0*	- *13*	*6·5*	- *1·1*	*42*	0	38	•	•	•	•	*Greenwich.*
a Hampstead	*450*	*78*	*29th*	*45*	*23rd*	*68·7*	*50·6*	*59·0*	—	*0*	*0·00*	*C*	—	*6·8*	—	*44*	0	34	•	•	•	•	*Hampstead.*
a Camden Square	*110*	*82*	*27, 29*	*49*	*25th*	*73·7*	*53·3*	*63·3*	—	*0*	*0·00*	*0*	—	*5·8*	—	*37*	0	47	•	•	•	•	*Camden Square.*
7. *a*, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	78	23rd	49	28th	70·3	53·7	61·4	+ 4·6	1	0·03	1	- 22	9·7	—	61	•	•	•	•	•	•	Hoylake.
p Newton Rigg	559	80	23rd	49	29th	75·6	52·6	63·3	+ 6·6	1	0·01	0·2	- 18	10·2	—	63	0	46	63·0	•	55·2	•	Aspatria.
p Stonyhurst	375	76	23, 25	49	29th	71·9	52·9	61·7	+ 3·8	2	0·09	2	- 22	9·9	+ 4·4	61	0	43	63·9	+3·9	55·2	-0·4	Newton Rigg.
p Blackpool	66	75	23, 24	51	27th	70·1	55·6	62·4	+ 3·2	1	0·01	0·2	- 17	9·8	+ 4·3	61	0	44	•	•	•	•	Stonyhurst.
a Southport	37	77	23, 24	54	24, 25, 27	69·9	55·3	62·1	+ 2·9	2	0·13	3	- 14	9·4	+ 3·6	59	0	43	63·7	•	55·9	•	Blackpool.
a Liverpool (Bidston)	188	75	24th	54	29th	67·0	56·7	61·5	+ 1·6	1	0·08	2	- 14	10·3	+ 4·0	65	0	45	65·6	+1·8	60·5	-0·2	Southport.
a Hawarden Bridge	22	78	24th	50	29th	72·4	54·3	62·7	+ 2·5	0	0·00	0	- 13	*10·2*	—	*64*	•	•	•	•	•	•	*Liverpool.*
p Manchester (Whit. Pk.)	125	83	26th	50	29th	76·1	55·1	64·9	+ 5·2	0	0·00	0	- 15	*9·1*	—	*57*	0	48	63·8	+3·0	58·4	+0·6	*Manchester (City)*
														10·1	+ *5·2*	*64*	•	•	•	•	•	•	" *(Whit. Park).*
b. NORTH WALES.																							
p Llandudno	71	75	23rd	48	28th	69·0	54·0	61·0	+ 1·1	0	0·00	0	- 14	10·6	+ 4·8	67	•	•	•	•	•	•	Llandudno.
a Holyhead	15	70	24th	54	28th	66·6	55·9	60·9	+ 2·4	0	0·00	0	- 15	*10·0*	—	*63*	•	•	•	•	•	•	*Holyhead.*
p Bettws-y-Coed	148	81	24th	44	29th	74·4	50·9	61·8	+ 2·7	0	0·00	0	—	*10·3*	—	65	•	•	59·7	+1·4	53·6	-0·9	Bettws-y-Coed.
														9·9	—	63	•	•	•	•	•	•	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date,	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	Bright Sunshine. Hours per Day. Daily Mean	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														9·0	—	57	•	•	•	•	•	•	Aberystwyth.
a Llangammarch Wells	550	78	25, 27	40	29th	74·3	47·9	60·2	+ 2·1	0	0·00	0	—	9·3	—	59	0	34	62·5	+4·4	54·0	−0·2	Llangammarch.
a Pembroke	149	75	23rd	53	29th	67·9	56·7	61·9	+ 3·5	0	0·00	0·1	− 15	11·2	+ 4·7	72	•	•	•	•	•	•	Pembroke.
p Cardiff	202	75	25–28	53	25, 29	73·7	54·3	63·3	+ 2·3	1	0·16	4	− 16	*10·4*	—	*67*	0	50	66·1	+5·5	57·6	−0·8	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	79	25, 26	49	25th	76·3	53·0	63·8	+ 1·9	0	0·00	0	− 17	*10·8*	—	*69*	0	49	•	•	•	•	*Clifton.*
a Shaftesbury	722	75	27–29	51	23–25	73·3	53·3	62·6	+ 2·8	1	0·02	1	− 14	•	•	•	•	•	64·4	•	58·5	•	Shaftesbury.
a Arlington	613	75	23rd	45	29th	72·0	51·0	60·8	+ 2·5	0	0·00	0	− 24	•	•	•	•	•	•	•	•	•	Arlington.
a Newquay	*190*	*71*	*23rd*	*49*	*26th*	*68·0*	*56·1*	*61·6*	+ *1·2*	*1*	*0·01*	*0·2*	− *13*	10·7	+ 3·9	69	•	•	64·7	•	57·9	•	Newquay.
a Cullompton	202	80	27, 29	48	29th	78·9	51·1	64·0	+ 3·5	0	0·00	0	− 17	10·7	+ 4·7	69	0	45	66·0	•	•	•	Cullompton.
a Portland Bill	19	74	28th	54	23rd	67·3	56·4	61·5	+ 1·0	0	0·00	0	—	*9·7*	—	*63*	•	•	•	•	•	•	*Weymouth.*
p Plymouth	116	77	28th	54	26th	71·6	55·7	63·1	+ 1·9	0	0·00	0	− 17	8·9	+ 2·2	58	•	•	65·9	0·0	58·7	•	Plymouth.
a Falmouth	167	76	23rd	55	29th	71·3	56·7	63·5	+ 3·3	0	0·00	0	− 17	10·9	+ 3·6	71	6	50	66·4	•	61·0	•	Falmouth.
9. IRELAND, N.																							
a, West .. { *a* Malin Head	208	68	25, 26	53	23, 24, 28	65·1	54·3	59·3	+ 2·9	2	0·09	2	− 15	*5·0*	•	*31*	•	•	•	•	•	•	*Malin Head.*
a Blacksod Point ..	?	65	25, 28	52	27th	63·4	55·1	59·0	+ 1·3	2	0·12	3	− 16	•	•	•	•	•	•	•	•	•	•
p Markree Castle ..	122	76	23rd	43	28th	71·1	50·4	60·0	+ 3·1	4	0·27	7	− 13	4·5	+ 0·4	28	0	39	62·5	•	55·5	•	Markree Castle.
a Birr Castle ..	175	76	23, 25	46	28th	72·0	55·0	62·9	+ 4·3	2	0·05	1	− 17	*5·7*	+ *1·3*	*36*	•	•	•	•	•	•	*Birr Castle.*
b, East .. { *p* Armagh	196	79	23rd	47	28th	73·7	53·6	63·0	+ 5·1	2	0·22	6	− 13	6·2	+ 1·8	39	0	43	62·3	+0·7	56·2	−1·4	Armagh.
a Donaghadee	101	73	29th	50	28, 29	66·7	53·3	59·5	+ 1·7	2	0·08	2	− 16	•	•	•	0	42	63·6	+2·6	57·6	−0·2	Trinity Coll.
10. IRELAND, S.														8·0	+ 2·7	50	0	40	•	•	•	•	Phœnix Park.
p Dublin, City	47	76	23rd	52	28th	71·6	56·3	63·4	+ 3·1	0	0·00	0	− 15	•	•	•	0	48	•	•	•	•	Dublin City.
a, East .. { *a* Kilkenny	212	80	23rd	47	28th	74·0	54·0	63·3	+ 4·7	3	0·22	6	− 11	•	•	•	•	•	•	•	•	•	•
a Waterford	20	80	23rd	50	28th	74·3	55·6	64·3	+ 4·6	0	0·00	0	− 20	•	•	•	•	•	•	•	•	•	•
a Seskin, Carrick-on-Suir	*541*	*78*	*23rd*	*49*	*29th*	*73·1*	*53·7*	*62·7*	—	*0*	*0·00*	*6*	—	*8·8*	—	*56*	0	44	•	•	•	•	*Seskin.*
b, West .. { *a* Birr Castle	175	76	23, 25	46	28th	72·0	55·0	62·9	+ 4·3	2	0·05	1	− 17	5·7	+ 1·3	36	•	•	•	•	•	•	Birr Castle.
a Foynes	50	74	24th	49	28th	71·1	55·6	62·8	+ 4·0	2	0·05	1	− 18	•	•	•	•	•	•	•	•	•	•
a Cahir	199	80	23rd	45	29th	74·7	53·0	63·1	+ 4·3	1	0·01	0	—	•	•	•	•	•	•	•	•	•	•
a Killarney	174	81	24th	47	28, 29	74·3	54·1	63·5	+ 5·0	1	0·04	1	− 20	•	•	•	•	•	•	•	•	•	•
a Valencia	30	71	23rd	49	28, 29	67·6	53·3	60·0	+ 1·3	2	0·05	1	− 23	5·4	+ 0·5	34	•	•	•	•	•	•	Valencia.
a Roche's Point	32	71	28th	53	29th	68·9	57·1	62·6	+ 3·2	3	0·03	1	− 17	9·4	—	60	•	•	•	•	•	•	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	70	26, 27, 28	56	23, 26, 29	67·9	56·7	61·9	+ 1·2	1	0·01	0·2	− 14	7·4	+ 0·3	48	•	•	•	•	•	•	Scilly.
a Jersey, St. Aubins ..	25	76	29th	55	23, 25, 28	70·3	56·3	62·8	+ 0·3	0	0·00	0	− 13	7·6	− 0·4	50	•	•	•	•	•	•	St. Heliers.
a Guernsey (Villa Carey)	180	76	28th	55	23, 25, 26	70·6	56·1	62·9	+ 1·6	0	0·00	0	− 13	8·4	+ 0·1	55	°	°	•	•	°	°	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, July 29th, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Above Ground.	Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.		Date and Hour, G.M.T.		Highest Gust with Date and Time, G.M.T.		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.			m/s.	d.	h. m.
1. SCOTLAND, E.																		
Dyce	305	75	‡15**	—	—	—	—	—	61	104	3	—	4	26th	14h.	12	29th	17 . 35
Aberdeen*	153	105 / 52 †	37 / 31 †	—	—	—	—	5	94	69	0	S. by E.	7	26th	15h.	11	26th	17 . 5
Edinburgh	485	39	31	—	—	—	—	40	81	47	0	WSW.	9	29th	23h.	13	29th	22 . 50
6. SCOTLAND, W.																		
Eskdalemuir	850	50	22	—	—	—	—	10	80	78	0	SW.	8	29th	12h.	12	29th	12 . 7
Paisley	188	81	52	—	—	—	—	1	86	81	0	NW. by N.	6	27th	17h.	11	29th	15 . 20
2. ENGLAND, N.E.																		
Alnwick Castle	340	70	17	—	—	—	—	—	44	124	0	W.	5	29th	18h.	11	29th	24 . 0
South Shields	72	61	12	—	—	—	—	26	54	85	3	W. by N.	9	29th	17h.	14	29th	16 . 58
Spurn Head	66	40	‡	—	—	—	—	—	77	90	1	—	5	26th	14h.	7	23rd	3 . 16
3. ENGLAND, E.																		
Gorleston	52	42	‡	—	—	—	—	7	96	41	24	—	7	23rd	13h.	9	23rd	14 . 9
Shoeburyness	103	90	‡	—	—	—	—	—	85	83	0	N.	4	23rd	9h.	13	23rd	11 . 5
4. MIDLAND COUNTIES.																		
Benson	270	84	‡	—	—	—	—	—	99	69	0	NNW.	5	28th	18h.	12	27th	18 . 28
5. ENGLAND, S.E.																		
Dover	271	40	‡	—	—	—	—	7	91	70	0	—	7	23rd	14h.	10	23rd	13 . 30
Warlingham	642	33	‡	—	—	—	—	—	38	130	0	—	2	23rd	10h.	6	28th	17 . 10
Brighton	264	53	6	—	—	—	—	—	90	78	0	—	5	29th	3h.	8	29th	3 . 26
Kew Observatory ..	82	65	6 / 22 †	—	—	—	—	—	89	79	0	ESE.	4	25th	18h.	7	26th	14 . 17
South Kensington ..	123	92	30	—	—	—	—	—	74	94	0	ENE.	4	26th	14h.	6	26th	13 . 48
7. ENGLAND, N.W.																		
Carnforth	246	56	23	—	—	—	—	—	36	132	0	WSW.	5	28th	13h.	9	28th	13 . 8
Southport	80	62	48	—	—	—	—	56	86	26	0	NW. by N.	8	28th	1h.	11	27th	14 24
Holyhead*	60	40	‡	—	—	—	—	46	98	24	0	S. by W.	8	25th	10h.	10	25th	9 . 38
8. ENGLAND, S.W.																		
Pendennis Castle§ ..	256	65	24	—	—	—	—	51	69	48	—	N.	10	28th	11h.	14	28th	11 . 34
Plymouth	185	88	2	—	—	—	—	7	101	60	—	—	7	29th	17h.	11	29th	17 . 33
Lyme Regis	556	61	‡	—	—	—	—	—	39	124	5	—	5	28th	2h.	9	28th	1 . 36
10. IRELAND, S.																		
Quilty	100	40	‡	—	—	—	—	12	115	41	0	—	7	29th	12h.	11	29th	11 . 9
Weaver Pt.	160	30	‡	—	—	—	—	20	116	32	0	—	7	27th	9h.	10	27th	9 . 51
11. ENGLISH CHANNEL.																		
Scilly*	150	32 / 19	‡	—	—	—	—	—	19	144	5	NW.	3	27th	15h.	5	28th	13 . 5

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.
** Above tops of trees.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory.
† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

THIRTIETH WEEK—July 23rd to July 29th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
			Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.				Deviation from Normal.				
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A. 200 +	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	81	45	92·3	84·9	88·3	+ 2·5	123	+ 31	0	0	3	− 1	0·59	15	− 5	3·9	0·0	23	1021
Eastern.																			
1. SCOTLAND, EAST ...	79	42	95·2	84·3	89·4	+ 2·6	137	+ 33	0	0	1	− 3	0·21	5	− 12	8·2	+3·2	50	1022
2. ENGLAND, N.E.	81	45	94·1	83·9	88·7	+ 0·9	127	+ 10	0	0	1	− 3	0·05	1	− 16	7·7	+2·1	48	1024
3. ENGLAND, EAST ...	80	42	92·4	83·6	87·7	− 1·2	115	− 16	0	0	2	− 2	0·03	1	− 13	5·0	−1·2	32	1023
4. MIDLAND COUNTIES ...	81	44	96·7	83·5	89·6	+ 1·0	139	+ 13	0	0	1	− 3	0·07	2	− 14	8·5	+2·9	54	1023
5. ENGLAND, S.E.	81	40	94·2	84·3	88·9	− 0·5	130	− 7	0	0	0	− 3	0·00	0	− 14	6·9	+0·5	44	1023
Western.																			
6. SCOTLAND, WEST ...	83	42	95·1	85·4	89·9	+ 2·8	143	+ 35	0	0	1	− 3	0·06	2	− 18	8·2	+2·9	51	1023
7. ENGLAND, N.W. ...	83	44	94·8	85·3	89·8	+ 1·8	141	+ 22	0	0	1	− 3	0 03	1	− 19	10·0	+4·6	63	1024
8. ENGLAND, S.W.	80	40	95·6	85·0	89·9	+ 1·3	144	+ 18	0	0	1	− 2	0 02	1	− 18	10·1	+4·2	65	1024
9. IRELAND, NORTH ...	79	43	93·4	85·0	88·9	+ 1·7	130	+ 22	0	0	2	− 2	0·14	4	− 16	5·4	+1·1	33	1023
10. IRELAND, SOUTH ...	81	45	95·3	85·7	90·2	+ 2·1	146	+ 25	0	0	2	− 1	0·05	1	− 18	7·1	+2·3	45	1025
11. ENGLISH CHANNEL ...	76	55	93·9	86·6	89·9	+ 0·5	144	+ 7	0	0	0	− 3	0·00	0	− 14	7·8	+0·4	51	1024

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 8 Weeks, June 4th to July 29th, 1916.

0. SCOTLAND, NORTH ...	81	35	87·7	81·8	84·5	− 0·6	602	− 64	0	− 2	32	0	5·11	131	− 16	3·0	−1·7	17	1013
Eastern.																			
1. SCOTLAND, EAST ...	79	30	89·0	81·2	84·8	− 1·2	636	−117	2	+ 1	32	+ 4	7·44	188	+ 66	3·6	−2·0	21	1013
2. ENGLAND, N.E.	81	32	89·6	82·1	85·6	− 1·3	711	−131	0	0	29	+ 4	4·11	103	+ 5	4·3	−2·0	26	1014
3. ENGLAND, EAST ...	80	36	90·2	82·6	86·2	− 1·7	765	−183	0	0	31	+ 7	3·66	93	− 6	4·4	−2·4	27	1015
4. MIDLAND COUNTIES ...	81	34	91·0	82·0	86·2	− 1·6	775	−155	0	0	26	+ 2	3·43	88	− 16	4·5	−1·7	28	1015
5. ENGLAND, S.E.	81	35	90·9	82·7	86·5	− 1·9	802	−192	0	0	24	+ 2	3·20	82	− 12	5·5	−1·5	34	1015
Western.																			
6. SCOTLAND, WEST ...	83	32	90·0	82·1	85·8	− 0·7	727	− 77	0	0	28	− 1	4·76	122	− 28	5·5	−0·5	32	1013
7. ENGLAND, N.W.	83	37	89·6	83·1	86·1	− 1·2	763	−114	0	0	24	− 3	3·86	98	− 24	5·3	−0·9	32	1015
8. ENGLAND, S.W.	80	35	90·5	82·9	86·4	− 1·3	792	−133	0	0	23	− 3	3·97	102	− 19	6·6	−0·1	41	1016
9. IRELAND, NORTH ...	80	35	89·0	82·2	85·4	− 1·2	692	−116	0	0	28	− 5	3·61	94	− 43	4·8	−0·2	29	1015
10. IRELAND, SOUTH ...	81	35	90·9	83·1	86·7	− 0·7	821	− 74	0	0	30	+ 2	4·23	107	− 22	6·1	+0·5	37	1017
11. ENGLISH CHANNEL ...	76	40	90·4	84·2	87·1	− 1·3	863	−125	0	0	21	− 5	1·92	49	− 44	7·4	−0·6	46	1017

THE YEAR.—Aggregates, &c., for the Period of 30 Weeks, January 2nd to July 29th, 1916.

0. SCOTLAND, NORTH ...	81	20	82·9	77·2	80·0	0·0	1021	− 93	454	−103	147	+11	31·41	797	+121	2·9	−0·7	21	1009
Eastern.																			
1. SCOTLAND, EAST ...	79	7	83·5	76·6	79·9	− 0·3	1103	−181	585	− 35	133	+21	24·06	612	+205	3·4	−0·8	26	1010
2. ENGLAND, N.E.	81	20	84·6	77·8	81·1	+ 0·2	1374	− 20	379	− 96	116	+14	15·31	388	+ 73	3·7	−0·8	28	1011
3. ENGLAND EAST ...	83	24	85·4	78·2	81·7	+ 0·2	1549	− 90	353	−168	116	+17	15·52	392	+ 82	4·0	−0·8	30	1013
4. MIDLAND COUNTIES ...	83	21	85·6	77·7	81·5	+ 0·1	1535	−114	405	−128	112	+14	16·25	415	+ 65	3·6	−0·7	28	1013
5. ENGLAND, S.E.	81	15	85·9	78·7	82·2	0·0	1675	− 86	291	− 87	111	+18	16·04	407	+ 70	4·4	−0·4	34	1013
Western.																			
6. SCOTLAND, WEST ...	83	17	84·3	77·8	80·9	− 0·2	1299	− 97	365	− 60	132	+14	24·29	620	+ 18	4·1	−0·2	31	1011
7. ENGLAND N.W.	83	8	84·7	78·6	81·5	0·0	1438	− 63	310	− 76	118	+10	19·01	484	+ 51	3·9	−0·5	30	1012
8. ENGLAND, S.W.	80	17	85·6	78·9	81·9	− 0·3	1571	−119	279	− 22	118	+12	20·73	532	+ 52	4·6	−0·2	35	1014
9. IRELAND NORTH ...	80	18	84·3	78·0	81·1	− 0·4	1301	−167	334	− 11	139	+11	21·32	546	+ 52	3·7	−0·3	29	1012
10. IRELAND, SOUTH ...	81	20	85·6	78·8	82·1	− 0·3	1594	−120	244	− 15	146	+32	21·33	539	+ 16	4·3	−0·2	33	1014
11. ENGLISH CHANNEL ...	79	30	85·9	80·6	83·2	− 0·1	1836	− 71	85	− 24	118	+ 5	16·39	414	+ 18	5·3	−0·4	41	1015
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., August 3rd, 1916.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 121

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.: or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 31. SUNDAY, JULY 30TH, TO SATURDAY, AUGUST 5TH, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s 0d.

I.—THE THIRTY-FIRST WEEK OF 1916.

The period now under review was the warmest, and one of the quietest and finest weeks of the present year over the British Isles generally, the only violent phenomena reported being lightning at Dublin on August 1st, and thunder at Douglas, Isle of Man, and lightning at Bettws-y-Coed on the 5th. Temperature was high, and maximum values of 300° A. (80° F.) and upwards occurred daily, the highest being 303° A. (86° F.) at Wilton, Salisbury, on July 31st, and 303½° A. (87° F.) at Shrewsbury on the following day. Minimum readings of 288° A. (59° F.) and above were recorded each night; 291° A. (64° F.) was reported at Crathes on July 30th, and at Poltalloch on August 1st. On the morning of the 5th, however, there were a few low values, 277½° A. (40° F.) at Marlborough, and 277° A. (39° F.) at Fulbeck. For the whole week the mean results were everywhere above the normal, by 1° A. (2° F.) in Scotland North, and more than 3° A. (5½° F.) in Ireland South. Rain was limited to the northern and western districts, but there was no heavy fall at any station. At numerous stations in England the period was rainless, an absolute drought having persisted in some places from July 16th, and in others from July 22nd. During the week Scotland North received 55 per cent. of the normal rainfall, and Scotland East 44 per cent., other regions very little or none at all. Bright sunshine was about normal in Scotland North; elsewhere it was abundant, amounting to 159 per cent. of the average in the Midlands and England South-West, and 167 per cent. in England South-East. At individual stations the average daily duration exceeded 12 hours. The temperature of the coastal sea water was 1° A. (1·8° F.) below the normal off Wick, and nearly as much at the Shipwash, but elsewhere it exceeded it, by as much as 2¾° A. (4¾° F.) off the west of Ireland.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.
		m/s		m/s		m/s		m/s		m/s		m/s		m/s		m/s
South	2	4·6	4	3·7	3	2·2	1	2·1	3	4·1	1	1·3	5	1·9	4	1·4
North	4	3·0	2	1·8	4	2·5	6	1·6	4	1·6	6	2·2	2	1·6	1	1·4
West	6	6·8	5	6·9	4	1·7	4	0·8	7	2·0	3	1·4	4	4·4	4	1·3
East	1	2·7	2	1·6	3	1·6	2	1·5	0	—	3	2·7	3	2·1	1	1·4
Calm	0	—	0	—	0	—	1	—	0	—	0	—	0	—	2	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c., is printed on a separate sheet. *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ... Warmth ...	Unusual	Unusual	Very unusual	Unusual	Unusual	Unusual	Very unusual	Unusual	Very unusual	Very unusual	Very unusual	Unusual
Rainfall ...	Light	Light	Very light	Nought	Nought	Nought	Light	Very light	Very light	Very light	Very light	Nought
Sunshine ...	Moderate	Abundant	Abundant	Abundant	Abundant	Very abundant	Abundant	Abundant	Very abundant	Abundant	Very abundant	Very abundant

II.—THE SUMMER SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SUMMER. 9 weeks from June 4th, 1916.	Warmth ...	3, 1, 5	3, 0, 6	2, 1, 6	1, 0, 8	2, 1, 6	1, 1, 7	3, 0, 6	2, 2, 5	2, 1, 6	3, 1, 5	3, 1, 5	2, 1, 6
	Rainfall ...	2, 3, 4	4, 1, 4	3, 4, 2	2, 5, 2	2, 4, 3	2, 4, 3	3, 2, 4	2, 3, 4	3, 1, 5	0, 5, 4	3, 2, 4	1, 3, 5
	Sunshine ...	0, 5, 4	3, 0, 6	2, 0, 7	1, 2, 6	2, 0, 7	1, 3, 5	3, 2, 4	3, 0, 6	3, 2, 4	3, 2, 4	4, 1, 4	2, 4, 3

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.

Increment of 1° A. = increment of ⅘° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(8861—19.) Wt. 79a—736. 450. 8/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Mean for the Week. Of Daily Min.	Mean for the Week. Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average.	
0. SCOTLAND, N.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
	31	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	*Baltasound.*
a, Islands.. *p Baltasound*	54	58	30, 31	48	4th	56·1	50·0	52·9	+ 0·6	5	0·55	14	—	3·5	- 0·7	21	*	*	*	*	*	*	Deerness.
a Lerwick..	51	62	31, 4, 5	49	31, 4	60·9	51·7	56·0	+ 1·9	4	0·39	10	- 11	2·7	- 1·8	17	*	*	*	*	*	*	Stornoway.
a Stornoway	*37*	*62*	*5th*	*51*	*31st*	*60·0*	*53·4*	*56·5*	+ *2·0*	*5*	*0·63*	*16*	—	*4·0*	—	*25*	*	*	*	*	*	*	*Castlebay.*
a Castlebay, Barra Isd.																							
a Wick	81	64	1, 2	46	5th	60·3	50·1	54·9	+ 0·5	5	0·44	11	- 6	*	*	*	*	*	*	*	*	*	
p Strathpeffer	200	73	4, 5	51	31, 5	67·0	53·4	59·8	+ 4·1	3	0·11	3	- 12	4·4	+ 0·4	27	*	*	*	*	*	*	Strathpeffer.
b, Mainland. *p* Glencarron	500	68	5th	49	31st	61·6	51·7	56·4	+ 2·6	5	1·32	34	- 3	*	*	*	*	*	*	*	*	*	
p Fort Augustus..	68	78	5th	48	31st	66·1	53·1	59·2	+ 3·3	3	0·89	18	- 1	4·3	+ 1·2	27	*	*	*	*	*	*	Fort Augustus.
p Fort William	171	74	4th	46	31st	66·3	53·3	59·4	+ 3·0	4	0·71	18	- 15	*	*	*	*	*	*	*	*	*	
1. SCOTLAND, E.																							
p Gordon Castle	101	73	5th	43	4th	67·7	51·1	58·9	+ 2·4	4	0·50	13	- 7	4·7	—	29	0	33	61·3	+2·3	56·4	+1·3	Crathes.
a Nairn	82	75	5th	46	5th	66·4	51·6	58·6	+ 2·2	4	0·45	11	- 3	*5·1*	—	*32*	*	*	*	*	*	*	*Gordon Castle.*
a Aberdeen	46	75	5th	45	5th	69·3	52·7	60·5	+ 4·3	3	0·39	10	- 6	5·6	—	35	*	*	*	*	*	*	Nairn.
a Balmoral	930	76	5th	42	5th	68·4	50·7	59·0	+ 5·3	2	0·28	7	- 12	6·0	+ 0·9	37	*	*	*	*	54·1	+0·4	Aberdeen.
p Crieff	432	82	5th	47	5th	72·4	52·9	62·1	+ 4·5	3	0·11	3	- 18	*	*	*	0	41	*	*	*	*	Balmoral.
														7·2	—	45	*	*	*	*	*	*	Balruddery.
a Leith	18	79	5th	50	5th	69·7	55·0	61·9	+ 3·7	2	0·05	1	- 15	*	*	*	*	*	*	*	*	*	
a West Linton	769	75	5th	45	5th	67·4	51·9	59·2	+ 4·7	2	0·13	3	—	*5·2*	—	33	0	38	*	*	*	*	*West Linton.*
p Marchmont	498	81	5th	44	5th	71·4	51·1	60·6	+ 4·5	2	0·17	4	- 16	8·6	+ 3·5	54	0	49	*	*	*	*	Marchmont.
a Edinburgh	*441*	*79*	*5th*	*49*	*5th*	*69·1*	*54·1*	*61·2*	—	*1*	*0·01*	*0*	—	8·1	—	51	0	45	*	*	*	*	Edinburgh.
6. *a*, SCOTLAND, W.																							
a Poltalloch	132	69	4th	52	31st	66·7	59·3	62·8	+ 5·5	3	0·54	14	- 11	*	*	*	*	*	*	*	*	*	
p Glasgow Observatory	180	75	4, 5	51	5th	68·1	56·1	61·7	+ 4·8	1	0·02	1	- 20	6·1	+ 1·7	38	0	42	*	*	*	*	Glasgow.
p Rothesay	170	73	5th	49	31st	66·9	53·6	59·4	+ 2·2	3	0·08	2	- 24	*5·5*	—	*35*	0	45	60·9	*	57·0	+2·1	*Rothesay.*
a Kilmarnock	90	77	1st	51	31st	72·3	55·3	63·8	+ 5·9	2	0·13	3	—	*6·0*	—	*38*	*	*	61·1	*	55·9	*	*Kilmarnock.*
a Colmonell	170	71	5th	52	2nd	67·0	55·6	61·0	+ 3·8	3	0·37	9	- 12	*	*	*	0	49	*	*	*	*	
a Dumfries	160	78	5th	51	4, 5	70·4	54·3	61·9	+ 3·7	1	0·11	3	- 17	*7·6*	—	*48*	0	45	63·4	*	59·8	*	*Dumfries.*
Eskdalemuir	*799*	*79*	*5th*	*45*	*5th*	*70·0*	*50·9*	*59·9*	—	*2*	*0·06*	*1*	—	*6·4*	—	*40*	*	*	*	*	*	*	*Eskdalemuir.*
p Cally, Gatehouse	120	81	5th	46	30th	72·9	52·1	61·9	+ 4·9	1	0·19	5	- 19	*	*	*	*	*	*	*	*	*	
b. I. OF MAN. *p* Douglas	277	71	30th	51	5th	68·1	55·6	61·5	+ 4·5	1	0·16	4	- 17	7·6	+ 1·6	49	0	50	*	*	*	*	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	77	1st	42	5th	71·7	53·0	61·8	+ 4·8	3	0·28	7	- 10	8·3	—	52	0	37	62·3	+3·3	57·3	+1·6	Cockle Park.
a Tynemouth	71	75	1st	49	5th	68·0	54·7	61·0	+ 3·3	2	0·08	2	- 13	*	*	*	*	*	*	*	*	*	Tynemouth.
p Durham..	336	84	5th	41	5th	74·0	53·9	63·4	+ 5·2	2	0·06	2	- 14	8·5	+ 3·4	54	0	38	*	*	*	*	Durham.
a North .. *p* Rounton..	240	79	5th	41	5th	72·7	53·3	62·4	+ 4·8	3	0·07	2	- 15	*	*	*	0	38	62·6	*	*	*	Rounton.
a West Witton	*605*	*81*	*5th*	*46*	*5th*	*73·0*	*55·1*	*63·5*	—	*3*	*0·13*	*3*	—	*	*	*	0	41	63·4	*	54·9	*	*West Witton.*
p Scarborough†	100	76	30, 1, 3	49	30th	71·1	53·1	61·6	+ 3·1	1	0·01	0	- 15	8·7	—	56	*	*	*	*	54·5	*	Scarborough.
p York	56	82	5th	47	5th	74·7	56·9	65·3	+ 5·9	1	0·01	0	- 15	7·9	+ 2·5	51	*	*	63·7	+3·9	58·0	+1·5	York.
b, South .. *a* Spurn Head	26	75	3rd	54	30, 5	69·7	56·3	62·6	+ 3·2	1	0·08	2	- 9	*7·5*	—	*48*	*	*	*	*	*	*	*Spurn Head.*
a Lincoln	58	82	1st	44	5th	77·4	53·7	64·8	+ 4·7	0	0·00	0	- 13	*	*	*	*	*	67·3	+5·3	59·0	+1·9	Lincoln.
a Fulbeck	180	82	1st	39	5th	77·7	52·0	64·1	+ 4·0	0	0·00	0	- 14	9·2	—	60	?	?	65·8	+1·4	57·3	-1·0	Rauceby.
														8·8	—	57	*	*	*	*	*	*	Skegness.
3. ENGLAND, E.																							
p Cromer	196	80	30th	52	30, 5	72·9	55·3	63·6	+ 3·4	0	0·00	0·1	—	8·5	—	55	*	*	*	*	*	*	Cromer.
p Little Massingham	280	83	30, 1	48	5th	76·0	54·0	64·3	+ 4·1	0	0·00	0	- 17	9·0	+ 2·8	58	0	44	*	*	*	*	Lit. Massingham.
a, North .. *a* Yarmouth	13	77	3rd	53	3, 5	71·0	55·6	62·8	+ 2·4	0	0·00	0	- 14	8·5	—	55	*	*	62·0	-4·4	56·9	-4·7	Yarmouth.
a Norwich	93	81	30th	52	30, 3, 5	75·6	54·3	64·3	+ 3·9	0	0·00	0	—	*8·1*	—	*53*	0	45	65·8	*	*	*	*Norwich.*
a Geldeston	37	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	Geldeston.
4. MIDLAND COUNTIES.																							
p Cambridge	41	81	30, 1	48	30th	77·9	52·3	64·3	+ 3·3	0	0·00	0	- 13	8·6	+ 2·1	56	0	44	64·9	+1·0	59·3	-0·6	Cambridge.
a Clacton-on-Sea	54	81	3rd	53	5th	72·4	55·9	63·7	+ 2·4	0	0·00	0	—	10·1	—	66	0	51	63·8	+2·5	59·6	-0·5	Clacton.
a Rothamsted	424	80	1st	48	5th	75·9	53·6	64·1	+ 4·2	0	0·00	0	- 14	10·3	+ 3·5	67	0	37	62·7	*	*	*	Rothamsted.
p Tottenham	51	82	31, 1, 2	53	5th	79·3	58·4	68·2	+ 6·0	0	0·00	0	—	11·2	—	73	0	51	*	*	60·6	-0·4	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate	479	79	5th	46	5th	72·1	55·7	63·4	+ 5·8	1	0·01	0·2	- 15	8·4	—	54	0	40	61·5	+3·8	58·3	+2·6	Harrogate.
p Buxton	*987*	*77*	*1st*	*43*	*5th*	*71·7*	*52·7*	*61·6*	+ *4·9*	*1*	*0·06*	*2*	- *22*	*7·7*	—	*50*	0	37	63·3	+3·4	55·1	+0·9	*Buxton.*
														9·0	*	58	0	39	62·6	+2·4	55·2	-0·1	Sheffield.
a Bawtry	65	82	1st	50	5th	75·3	54·0	64·0	+ 4·3	0	0·00	0	- 14	8·0	+ 2·9	52	0	34	62·2	*	57·6	*	Worksop.
a Nottingham	82	81	1st	42	5th	76·1	53·4	64·1	+ 4·0	0	0·00	0	- 14	7·6	—	49	0	39	63·9	+1·6	58·6	0·0	Nottingham.
b, East .. *p* Birmingham, Edgbsn.	535	82	30th	49	5th	77·7	56·1	66·3	+ 7·1	0	0·00	0	- 14	7·9	—	51	0	34	60·2	+2·9	53·1	-0·1	Birmingham.
a Raunds	203	84	1st	44	5th	78·4	51·9	64·4	+ 3·6	0	0·00	0·1	—	*8·9*	—	*58*	1	30	64·4	*	57·0	*	*Raunds.*
p Oxford	208	83	1st	45	5th	78·3	54·0	65·4	+ 4·2	0	0·00	0	- 13	10·8	+ 4·5	71	0	38	*	*	*	*	Oxford
a Cheadle	646	81	1st	46	5th	74·4	53·9	63·5	+ 5·8	0	0·00	0	- 18	*	*	*	0	43	*	*	*	*	Cheadle.
c, West .. *p* Shrewsbury	191	87	1st	48	5th	78·4	53·6	65·3	+ 6·1	0	0·00	0	—	*	*	*	0	42	*	*	*	*	Shrewsbury.
a Hereford§	291	82	30th	46	30, 5	79·1	50·3	63·8	+ 3·8	0	0·00	0	- 13	*9·8*	—	*64*	0	38	67·0	*	61·3	*	*Malvern.*§
a Bath	66	83	1st	49	30th	79·9	54·0	66·2	+ 5·8	0	0·00	0	- 15	10·4	—	68	*	*	66·5	+2·1	61·2	+0·2	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	81	31, 1, 2, 4	40	5th	78·9	46·7	61·8	+ 2·4	0	0·00	0	- 14	12·1	—	80	0	45	66·4	+1·4	60·4	+0·1	Worthing.
a Margate	53	79	3rd	53	30th	73·9	68·6	65·8	+ 3·8	0	0·00	0	- 11	9·6	+ 3·6	63	0	33	63·1	*	57·0	*	Marlborough.
a Wisley, Surrey	150	83	30, 1	47	5th	80·0	52·4	65·4	+ 3·5	0	0·00	0	—	9·6	+ 3·0	63	0	48	67·4	+4·2	62·0	+2·8	Margate.
p Salisbury (Wilton)	180	86	31st	45	5th	82·4	52·1	66·3	+ 5·0	0	0·00	0	- 13	11·4	—	75	0	35	63·6	0·0	58·0	-2·0	Wisley.
a Tunbridge Wells	354	82	31st	47	5th	78·1	53·9	66·3	+ 5·0	0	0·00	0	- 13	*	*	*	0	41	67·1	*	*	*	Salisbury.
														10·6	+ 4·0	69	0	37	63·0	-1·8	58·8	*	Tunbridge Wells.
a Dungeness	21	74	2nd	50	30, 5	69·9	53·9	61·4	+ 0·3	0	0·00	0	- 11	*	*	*	*	*	*	*	*	*	Littlestone.
p Hastings..	178	76	1st	51	5th	72·9	57·7	64·8	+ 3·5	0	0·00	0	- 13	11·9	+ 4·4	79	0	47	66·5	*	60·2	*	Hastings.
p Southampton	64	85	31st	50	5th	80·3	56·9	67·9	+ 5·4	0	0·00	0	- 14	11·4	+ 4·3	75	0	40	*	*	*	*	Southampton.
a Ventnor	59	79	31st	53	5th	74·1	59·0	66·1	+ 3·8	0	0·00	0	- 12	12·1	+ 5·2	80	*	*	*	*	*	*	Ventnor.
LONDON. *p* Kew Observatory	18	82	1st	51	5th	78·1	56·3	66·6	+ 5·1	0	0·00	0	- 13	10·9	+ 4·4	71	0	47	65·3	+2·3	58·1	-0·3	Kew Obs.
a Westminster	*27*	*84*	*31st*	*54*	*5th*	*80·0*	*58·1*	*68·4*	+ *7·1*	*0*	*0·00*	*0*	- *13*	*10·8*	+ *5·1*	*71*	0	50	*	*	*	*	*Westminster.*
a Greenwich	*155*	*84*	*31, 1*	*51*	*30, 5*	*80·4*	*55·7*	*67·3*	+ *4·2*	*0*	*0·00*	*0*	- *13*	*10·3*	+ *2·8*	*67*	0	41	*	*	*	*	*Greenwich.*
a Hampstead	*450*	*81*	*31, 1, 3*	*49*	*5th*	*77·6*	*55·6*	*65·9*	—	*0*	*0·00*	*C*	—	*10·4*	—	*68*	0	36	*	*	*	*	*Hampstead.*
a Camden Square	*110*	*85*	*1st*	*52*	*5th*	*82·1*	*57·1*	*68·9*	—	*0*	*0·00*	*0*	—	*8·9*	—	*58*	0	49	*	*	*	*	*Camden Square.*
7. *a*, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	72	4th	50	1st	67·6	54·4	60·6	+ 3·9	2	0·07	2	- 22	7·4	—	47	*	*	*	*	*	*	Hoylake.
p Newton Rigg	559	78	5th	48	5th	71·6	53·7	62·1	+ 5·6	2	0·09	2	- 17	6·9	—	44	0	49	61·3	*	56·4	*	Aspatria.
p Stonyhurst	375	75	1st	51	5th	69·6	55·7	62·2	+ 4·3	1	0·03	1	- 24	8·1	+ 2·8	52	0	45	63·6	+3·3	56·8	+0·8	Newton Rigg.
p Blackpool	66	75	1st	51	5th	70·0	57·6	63·4	+ 4·5	1	0·01	0	- 19	7·2	+ 1·9	46	0	44	*	*	*	*	Stonyhurst.
a Southport	37	77	1st	50	5th	70·0	57·6	63·4	+ 4·4	0	0·00	0	- 19	7·2	+ 1·5	46	0	41	65·3	*	57·1	*	Blackpool.
a Liverpool (Bidston)	188	75	1st	55	5th	68·0	58·0	62·7	+ 3·5	0	0·00	0	- 19	8·3	+ 2·3	53	0	45	67·5	+3·6	61·6	+0·6	Southport.
a Hawarden Bridge	22	80	1st	52	5th	72·4	56·3	63·9	+ 3·8	1	0·01	0·2	- 14	*7·5*	—	*48*	*	*	*	*	*	*	*Liverpool.*
p Manchester (Whit. Pk.)	125	78	1st	49	5th	73·0	57·7	64·9	+ 5·4	2	0·04	1	- 15	*6·7*	—	*43*	0	48	65·0	+3·8	60·3	+1·9	*Manchester (City)*
														6·5	+ *1·8*	*42*	*	*	*	*	*	*	" (Whit. Park)
b. NORTH WALES.																							
p Llandudno	71	71	1st	51	5th	67·7	56·6	61·8	+ 2·3	0	0·00	0	- 14	7·5	+ 1·8	49	*	*	*	*	*	*	Llandudno.
a Holyhead	15	70	30th	54	5th	66·1	56·6	61·1	+ 2·9	1	0·24	6	- 10	*5·6*	—	*36*	*	*	*	*	*	*	*Holyhead.*
p Bettws-y-Coed	148	79	30th	50	5th	74·1	54·1	63·5	+ 4·6	3	0·02	1	—	8·7	—	56	*	*	59·9	+1·5	54·4	-0·6	Bettws-y-Coed.
														7·9	—	51	*	*	*	*	*	*	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														8·4	—	55	*	*	*	*	*	*	Aberystwyth.
a Llangammarch Wells	550	75	4th	40	30th	72·6	47·5	59·3	+ 1·7	0	0·00	0	—	8·3	*	54	0	35	62·5	+3·9	55·3	+0·3	Llangammarch.
a Pembroke	149	72	3rd	55	1, 4	68·9	56·7	62·4	+ 3·9	2	0·02	0·4	- 15	9·2	+ 2·8	60	*	*	*	*	*	*	Pembroke.
p Cardiff	202	79	3rd	51	30th	75·3	55·0	64·5	+ 3·9	0	0·00	0	- 22	*11·7*	—	*76*	0	48	66·7	+5·0	59·2	+0·4	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	81	1st	55	30, 5	77·3	57·7	66·9	+ 5·3	1	0·09	2	- 16	*11·3*	—	*74*	0	53	*	*	*	*	*Clifton.*
a Shaftesbury	722	81	31st	49	5th	77·6	55·9	66·1	+ 6·6	0	0·00	0	- 16	*	*	*	*	*	66·9	*	60·5	*	Shaftesbury.
a Arlington	613	76	4th	45	30th	73·1	52·7	62·3	+ 4·2	0	0·00	0	- 25	*	*	*	*	*	*	*	*	*	Arlington.
a Newquay	*190*	*72*	*4th*	*45*	*30th*	*67·0*	*56·4*	*60·9*	+ *0·2*	*1*	*0·01*	*0*	- *13*	7·7	+ 0·9	51	*	*	65·3	*	58·9	*	Newquay.
a Cullompton	202	83	31, 1, 3	44	30th	81·4	52·7	66·2	+ 6·1	0	0·00	0	- 17	11·2	+ 5·2	74	0	42	67·7	*	*	*	Cullompton.
a Portland Bill	19	73	4th	54	5th	70·1	58·4	63·9	+ 3·4	0	0·00	0	—	*12·4*	—	*82*	*	*	*	*	*	*	*Weymouth.*
p Plymouth	116	79	4th	51	30th	74·6	57·9	65·8	+ 4·8	0	0·00	0	- 16	10·4	+ 3·8	69	*	*	68·0	+2·0	60·3	*	Plymouth.
a Falmouth	167	79	4th	52	30th	75·0	57·1	65·5	+ 5·3	0	0·00	0	- 18	11·2	+ 4·0	74	0	45	67·6	*	62·1	*	Falmouth.
9. IRELAND, N.																							
a, West .. *a* Malin Head	208	65	31, 1	53	31st	63·1	55·6	59·1	+ 2·7	4	0·14	4	- 15	*4·3*	*	*27*	*	*	*	*	*	*	*Malin Head.*
a Blacksod Point ..	?	70	5th	54	31, 2	64·3	56·0	59·9	+ 2·3	3	0·20	5	- 17	*	*	*	*	*	*	*	*	*	*
p Markree Castle ..	122	74	5th	47	2nd	70·6	55·3	62·5	+ 5·8	4	0·15	4	- 18	5·0	+ 0·9	32	0	42	63·0	*	56·6	*	Markree Castle.
a Birr Castle	175	78	5th	51	3rd	73·7	55·9	64·3	+ 6·1	3	0·06	2	- 17	*5·5*	+ *1·0*	*36*	*	*	*	*	*	*	*Birr Castle.*
b, East .. *p* Armagh	196	76	5th	52	2nd	72·3	57·7	64·6	+ 7·2	2	0·29	7	- 13	5·4	+ 1·0	35	0	48	63·6	+1·9	57·5	-0·5	Armagh.
a Donaghadee	101	75	30th	52	5th	66·6	54·6	60·2	+ 2·5	2	0·24	6	- 12	*	*	*	*	*	*	*	*	*	*
														*	*	*	0	46	63·9	+2·6	58·6	+0·5	Trinity Coll.
10. IRELAND, S.														7·1	+ 1·7	46	0	46	*	*	*	*	Phœnix Park.
a, East .. *p* Dublin, City	47	74	30, 1, 4	58	31, 2, 3	71·9	59·0	65·1	+ 5·2	4	0·10	3	- 14	*	*	*	0	53	*	*	*	*	Dublin City.
a Kilkenny	212	78	5th	51	3rd	74·6	57·0	65·3	+ 6·8	1	0·06	1	- 17	*	*	*	*	*	*	*	*	*	*
a Waterford	20	79	4th	55	3, 4	75·4	58·0	66·2	+ 6·9	0	0·00	0	- 20	*	*	*	*	*	*	*	*	*	*
a Seskin, Carrick-on-Suir	*541*	*77*	*4th*	*53*	*3rd*	*74·7*	*56·3*	*65·0*	—	*0*	*0·00*	*0*	—	*7·1*	—	*46*	0	50	*	*	*	*	*Seskin.*
b, West .. *a* Birr Castle	175	78	5th	51	3rd	73·7	55·9	64·3	+ 6·1	3	0·06	2	- 17	5·5	+ 1·0	36	*	*	*	*	*	*	Birr Castle.
a Foynes	50	74	5th	52	3rd	72·0	56·4	63·7	+ 5·0	1	0·07	2	- 18	*	*	*	*	*	*	*	*	*	*
a Cahir	198	80	5th	50	1, 3	70·0	54·9	64·8	+ 6·0	1	0·17	4	—	*	*	*	*	*	*	*	*	*	*
a Killarney	174	84	5th	52	3rd	77·5	58·4	67·4	+ 8·9	1	0·01	0	- 22	*	*	*	*	*	*	*	*	*	*
a Valencia	30	78	*4th*	51	4th	70·0	56·3	62·7	+ 4·1	3	0·07	2	- 23	7·6	+ 2·7	50	*	*	*	*	*	*	Valencia.
a Roche's Point	32	74	*3rd*	56	30th	70·4	57·4	63·5	+ 4·4	2	0·06	2	- 17	8·4	—	55	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	73	3rd	57	30th	71·1	59·4	64·9	+ 4·2	1	0·01	0·3	- 14	7·5	+ 0·3	50	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	79	1, 3	51	31st	75·4	57·9	66·1	+ 3·5	0	0·00	0	- 13	13·1	+ 5·2	87	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	80	1st	52	31st	74·7	56·4	65·0	+ 3·6	0	0·00	0	- 14	13·1	+ 4·9	87	0	46	67·7	+3·2	62·6	+1·5	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, August 5th, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Height. Above Ground.	Height. Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Gales, force 8 or more. Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	High Winds, forces 6 and 7. Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.		Date and Hour, G.M.T.	Highest Gust with Date and Time, G.M.T.
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.		m/s. d. h. m.
1. SCOTLAND, E. Dyce	305	75	‡15**	—	—	—	—	9	94	65	0	—	8	1st 13h.	18 1st 13 . 17
Aberdeen*	153	105	37 / 52 †	—	—	—	—	35	86	47	0	W. by N.	10	3rd 3h.	17 3rd 1 . 49
Edinburgh	485	39	31	—	—	30, 3	4	93	48	16	7	W. by S.	12	3rd 1h.	18 3rd 17 . 55
6. SCOTLAND, W. Eskdalemuir	850	50	22	—	—	1st	1	51	83	33	0	SSW.	11	1st 13h.	18 3rd 2 . 49
Paisley	188	81	52	—	—	—	—	33	113	22	0	WNW.	9	3rd 15h.	21 1st 9 . 58
2. ENGLAND, N.E. Alnwick Castle	340	70	17	—	—	—	—	23	71	74	0	SW.	7	1st 13h.	16 3rd 4 . 11
South Shields	72	61	12	—	—	3rd	2	60	93	13	0	WNW.	13	3rd 15h.	18 3rd 15 . 5
Spurn Head	66	40	‡	—	—	—	—	28	103	36	1	—	9	4th 14h.	12 4th 14 . 28
3. ENGLAND, E. Gorleston	52	42	‡‡	—	—	—	—	39	85	44	0	—	9	4th 13h.	13 4th 10 . 29
Shoeburyness	103	90	‡‡	—	—	—	—	5	148	15	0	ENE.	6	4th 14h.	13 4th 11 . 49
4. MIDLAND COUNTIES. Benson	270	84	‡	—	—	—	—	3	82	83	0	SSW.	6	30th 14h.	10 3rd 12 . 17
5. ENGLAND, S.E. Dover	271	40	‡	—	—	—	—	29	42	97	0	—	9	4th 6h.	13 4th 9 . 20
Warlingham	642	33	‡‡	—	—	—	—	—	48	120	0	—	4	1st 14h.	9 4th 10 . 15
Brighton	261	53	6	—	—	—	—	1	91	76	0	—	6	1st 9h.	10 4th 9 . 32
Kew Observatory ..	82	65	6 / 22 †	—	—	—	—	—	92	76	0	NE.	5	4th 19h.	10 4th 9 . 5
South Kensington ..	123	92	30	—	—	—	—	—	98	72	0	NNE.	4	4th 20h.	8 4th 19 . 44
7. ENGLAND, N.W. Carnforth	246	56	23	—	—	—	—	1	82	85	0	WSW.	6	3rd 15h.	11 3rd 18 . 23
Southport	80	62	48	—	—	3, 4	2	97	64	5	0	NW. by N.	12	4th 5h.	16 4th 4 . 55
Holyhead*	60	40	‡	—	—	—	—	61	91	16	0	SSW.	9	1st 11h.	14 1st 11 . 28
8. ENGLAND, S.W. Pendennis Castle§ ..	256	65	24	—	—	—	—	29	101	38	0	NNW.	9	4th 4h.	11 4th 3 . 50
Plymouth	185	88	2	—	—	—	—	1	108	59	0	—	6	5th 13h.	9 30th 15 . 43
Lyme Regis	556	61	‡	—	—	—	—	1	51	116	0	—	6	4th 9h.	9 4th 9 . 30
10. IRELAND, S. Quilty	100	40	‡‡	—	—	—	—	22	87	59	0	—	9	1st 12h.	14 1st 9 . 7
Weaver Pt.	160	30	‡‡	—	—	—	—	15	128	24	1	—	8	1st 16h.	12 1st 14 . 24
11. ENGLISH CHANNEL. Scilly*	150	32 / 19	‡	—	—	—	—	1	57	110	0	NE. by E.	6	4th 12h.	10 4th 11 . 36

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.
† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

THIRTY-FIRST WEEK—July 30th to August 5th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
			Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	78	46	90·0	84·1	86·8	+ 1·0	104	+ 12	0	0	4	− 1	0·60	15	− 7	3·7	+0·1	23	1021
Eastern.																			
1. SCOTLAND, EAST ...	82	42	93·6	84·2	88·6	+ 1·9	127	+ 24	0	0	3	− 1	0·26	7	− 9	6·7	+1·7	42	1022
2. ENGLAND, N.E.	84	41	95·8	85·3	90·2	+ 2·4	147	+ 30	0	0	1	− 2	0·07	2	− 16	8·6	+3·0	55	1024
3. ENGLAND, EAST ...	83	48	96·9	85·7	91·0	+ 2·2	157	+ 27	0	0	0	− 3	0·00	0	− 12	9·5	+3·3	62	1025
4. MIDLAND COUNTIES ...	87	42	98·0	85·1	91·1	+ 2·7	158	+ 34	0	0	0	− 3	0·00	0	− 14	8·9	+3·3	58	1025
5. ENGLAND, S.E.	86	40	97·9	85·7	91·4	+ 2·0	162	+ 26	0	0	0	− 3	0·00	0	− 12	11·1	+4·6	72	1025
Western.																			
6. SCOTLAND, WEST ...	81	46	93·5	85·9	89·5	+ 2·5	138	+ 32	0	0	2	− 2	0·20	5	− 17	6·9	+1·5	44	1024
7. ENGLAND, N.W. ...	80	48	94·1	86·4	90·0	+ 2·0	144	+ 25	0	0	1	− 2	0·05	1	− 19	7·7	+2·3	49	1026
8. ENGLAND, S.W.	83	40	96·7	85·9	90·9	+ 2·4	156	+ 31	0	0	1	− 2	0·01	1	− 16	9·5	+3·4	62	1026
9. IRELAND, NORTH ...	78	47	93·2	86·3	89·6	+ 2·4	139	+ 30	0	0	3	− 2	0·18	5	− 16	5·2	+0·9	33	1025
10. IRELAND, SOUTH ...	84	50	96·1	86·9	91·2	+ 3·1	160	+ 40	0	0	2	− 2	0·07	2	− 19	7·2	+2·2	46	1027
11. ENGLISH CHANNEL ...	80	51	96·2	87·4	91·5	+ 2·0	163	+ 25	0	0	0	− 3	0·00	0	− 13	11·2	+3·2	75	1026

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 9 Weeks, June 4th to August 5th, 1916.

0. SCOTLAND, NORTH ...	81	35	87·9	82·0	84·8	− 0·4	706	− 52	0	− 2	36	− 1	5·71	146	− 23	3·1	−1·5	18	1014
Eastern.																			
1. SCOTLAND, EAST ...	82	30	89·5	81·5	85·2	− 0·9	763	− 93	2	+ 1	35	+ 3	7·70	195	+ 57	4·0	−1·6	23	1014
2. ENGLAND, N.E.	84	32	90·3	82·5	86·1	− 0·9	858	−101	0	0	30	+ 2	4·18	105	− 11	4·8	−1·4	29	1015
3. ENGLAND, EAST ...	83	36	91·0	82·9	86·7	− 1·3	922	−156	0	0	31	+ 4	3·66	93	− 18	4·9	−1·9	31	1016
4. MIDLAND COUNTIES ...	87	34	91·8	82·4	86·8	− 1·0	933	−121	0	0	26	− 1	3·43	88	− 30	5·0	−1·1	31	1016
5. ENGLAND, S.E.	86	35	91·7	83·1	87·1	− 1·4	964	−166	0	0	24	− 1	3·20	82	− 24	6·1	−0·8	38	1016
Western.																			
6. SCOTLAND, WEST ...	83	32	90·4	82·5	86·2	− 0·4	865	− 45	0	0	30	− 3	4·96	127	− 45	5·6	−0·3	34	1015
7. ENGLAND, N.W.	83	37	90·1	83·4	86·5	− 0·8	907	− 89	0	0	25	− 5	3·91	99	− 43	5·5	−0·6	34	1016
8. ENGLAND, S.W.	83	35	91·2	83·2	86·9	− 0·9	948	−102	0	0	24	− 5	3·98	103	− 35	6·9	+0·3	43	1017
9. IRELAND, NORTH ...	80	35	89·5	82·7	85·9	− 0·8	831	− 86	0	0	31	− 7	3·79	99	− 59	4·8	−0·2	29	1016
10. IRELAND, SOUTH ...	84	35	91·4	83·5	87·2	− 0·3	981	− 34	0	0	32	0	4·30	109	− 41	6·2	+0·7	38	1018
11. ENGLISH CHANNEL ...	80	40	91·0	84·6	87·6	− 0·9	1026	−100	0	0	21	− 8	1·92	49	− 57	7·8	−0·2	49	1018

THE YEAR.—Aggregates, &c., for the Period of 31 Weeks, January 2nd to August 5th, 1916.

0. SCOTLAND, NORTH ...	81	20	83·2	77·4	80·2	0·0	1125	− 81	454	−103	151	+10	32·01	812	+114	2·9	−0·7	22	1009
Eastern.																			
1. SCOTLAND, EAST ...	82	7	83·8	76·9	80·2	− 0·3	1230	−157	585	− 35	136	+20	24·32	619	+196	3·5	−0·7	26	1010
2. ENGLAND, N.E.	84	20	85·0	78·1	81·4	+ 0·3	1521	+ 10	379	− 96	117	+12	15·38	390	+ 57	3·8	−0·8	29	1012
3. ENGLAND EAST ...	83	24	85·7	78·5	82·0	+ 0·3	1706	− 63	353	−168	116	+14	15·52	392	+ 70	4·1	−0·8	32	1013
4. MIDLAND COUNTIES ...	87	21	86·0	77·9	81·8	+ 0·1	1693	− 80	405	−128	112	+11	16·25	415	+ 51	3·8	−0·6	29	1013
5. ENGLAND, S.E.	86	15	86·3	78·9	82·5	+ 0·1	1837	− 60	294	− 87	111	+15	16·04	407	+ 58	4·6	−0·3	36	1014
Western.																			
6. SCOTLAND, WEST ...	83	17	84·6	78·1	81·2	− 0·1	1437	− 65	365	− 60	134	+12	24·49	625	+ 1	4·1	−0·3	31	1011
7. ENGLAND N.W.	83	8	85·0	78·8	81·8	+ 0·1	1582	− 38	310	− 76	119	+ 8	19·06	485	+ 32	4·0	−0·4	31	1013
8. ENGLAND, S.W.	83	17	86·0	79·1	82·2	− 0·2	1727	− 88	279	− 22	119	+10	20·74	533	+ 36	4·8	0·0	36	1014
9. IRELAND NORTH ...	80	18	84·6	78·3	81·3	− 0·4	1440	−137	334	− 11	142	+ 9	21·50	551	+ 36	3·8	−0·2	29	1012
10. IRELAND, SOUTH ...	84	20	85·9	79·1	82·4	− 0·1	1754	− 80	244	− 15	148	+30	21·40	541	− 3	4·4	−0·1	34	1014
11. ENGLISH CHANNEL ...	80	30	86·2	80·9	83·4	− 0·1	1999	− 46	85	− 24	118	+ 2	16·39	414	+ 5	5·4	−0·4	42	1015
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics. South Kensington, S.W., August 10th 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 32. SUNDAY, AUGUST 6TH, TO SATURDAY, AUGUST 12TH, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE THIRTY-SECOND WEEK OF 1916.

The fine, dry weather continued over the Kingdom generally until nearly the end of the week. Over Great Britain there was no rain until the 12th, although thunder was heard occasionally in some parts of Scotland, and at a few stations in the east of England. Over the greater part of Ireland rain was experienced on the 11th and 12th, and in East Limerick a sharp, destructive thunderstorm occurred on the 9th. On the east and north-east coasts of Scotland, and in Shetland there was much sea fog. Temperature was again high, but the deviation from the normal was less marked than during the preceding week, ranging from about 1° A. (1·8° F.) in the east and north-east of Britain to 2·3° A. (4·1° F.) in Scotland West, 2·6° A. (4·7° F.) in Ireland North, and to 3·1° A. (5·6° F.) in Ireland South. The highest of the maxima occurred on irregular dates, and the lowest of the minima during the earlier half of the week. At Killarney and Cullompton the respective maximum values were 302½° A. (85° F.) and 302° A. (84° F.). In Scotland North and East and in England North-East the absolute minima were about 277½° A. (40° F.). At some English and Irish stations at the end of the week the minima were as high as 288½° A. (60° F.). At several places in England, and more locally in Scotland, the weather was rainless, and in all districts the total rainfall was light or very light. Bright sunshine was abundant over the Kingdom as a whole—very abundant in Scotland North and England North-West. In England East, South-East and South-West, and also in the English Channel district, however, it was only moderate. At Kew the daily mean was no more than 5·3 hours, or 1 hour per day less than the normal; at Greenwich the daily deficiency was greater. At Aspatria a lunar rainbow was observed at midnight on the 12th. The mean temperature of the sea surface water ranged from 3·3° A. (6° F.) above the average at Cleggan to 0·7° A. (1·3° F.) below the normal at Wick.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.
		m/s		m/s		m/s		m/s		m/s		m/s		m/s		m/s
South	4	3·6	2	2·1	4	2·1	4	1·3	4	3·8	5	3·2	5	3·0	5	3·7
North	3	1·6	5	1·0	3	2·8	2	2·0	3	1·8	2	2·1	2	0·9	1	0·3
West	1	1·4	1	1·2	1	1·3	2	1·0	4	1·7	2	2·8	2	2·0	1	0·6
East	6	1·9	5	1·2	6	2·2	5	1·8	2	2·8	4	3·7	5	1·5	4	2·1
Calm	0	—	0	—	0	—	1	—	0	—	0	—	0	—	1	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c, is printed on a separate sheet. *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.												
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ... Warmth ...	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Very unusual	Unusual	Unusual	Very unusual	Very unusual	Unusual
Rainfall ...	Very light	Very light	Very light	Light	Very light	Very light	Light	Very light	Light	Light	Light	Light
Sunshine ...	Very abundant	Abundant	Abundant	Moderate	Abundant	Moderate	Abundant	Very abundant	Moderate	Abundant	Abundant	Moderate

II.—THE SUMMER SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SUMMER. 10 weeks from June 4th, 1916.												
Warmth ...	4, 1, 5	4, 0, 6	3, 1, 6	2, 0, 8	3, 1, 6	2, 1, 7	4, 0, 6	3, 2, 5	3, 1, 6	4, 1, 5	4, 1, 5	3, 1, 6
Rainfall ...	2, 3, 5	4, 1, 5	3, 4, 3	2, 5, 3	2, 4, 4	2, 4, 4	3, 2, 5	2, 3, 5	3, 1, 6	0, 5, 5	3, 2, 5	1, 3, 6
Sunshine ...	1, 5, 4	4, 0, 6	3, 0, 7	1, 3, 6	3, 0, 7	1, 4, 5	4, 2, 4	4, 0, 6	3, 3, 4	4, 2, 4	5, 1, 4	2, 5, 3

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (° A.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1° A. = increment of ⅘° F., 273° A. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(8930—19.) Wt. 79a—736. 450. 8/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average.	
0. SCOTLAND, N.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
p Baltasound	*31*	—	—	—	—	—	—	—	—	—	—	—	—	•	•		•	•	•	•	•	•	*Baltasound.*
a, Islands.. *a* Lerwick	54	57	8, 10, 11	45	9th	56·0	47·4	51·4	− 0·8	1	0·01	0·3	—	4·6	+ 0·5	29	•	•	•	•	•	•	Deerness.
a Stornoway	51	71	8th	47	7, 8	65·7	50·7	57·8	+ 3·8	2	0·20	5	− 18	7·1	+ 2·7	45	•	•	•	•	•	•	Stornoway.
a Castlebay, Barra Isd.	*37*	*65*	*10th*	*50*	*6th*	*63·3*	*54·3*	*58·5*	+ *4·1*	*2*	*0·52*	*13*	—	*8·2*	—	*53*							*Castlebay.*
a Wick	81	62	9th	40	7th	56·6	48·0	52·0	− 2·4	2	0·06	2	− 15	•	•	•	•	•	•	•	•	•	
b, Main- *p* Strathpeffer	200	75	8, 10	43	7th	71·7	49·4	59·9	+ 4·4	1	0·03	1	− 14	7·1	+ 3·1	45	•	•	•	•	•	•	Strathpeffer.
land. *p* Glencarron	500	74	8, 11	45	7th	71·4	50·4	60·3	+ 6·6	2	0·07	2	− 37	•	•	•	•	•	•	•	•	•	
p Fort Augustus	68	79	9th	47	6, 9	69·4	52·4	60·4	+ 4·7	1	0·13	3	− 17	6·8	+ 3·8	44	•	•	•	•	•	•	Fort Augustus.
p Fort William	171	78	11th	48	8th	74·1	52·1	62·4	+ 6·2	2	0·41	10	− 24	•	•	•	•	•	•	•	•	•	
1. SCOTLAND, E.														7·3	—	47	0	32	60·7	+1·4	56·8	+1·2	Crathes.
p Gordon Castle	101	75	8th	40	7th	69·4	48·6	58·4	+ 2·1	1	0·03	1	− 19	*7·8*	—	*50*	•	•	•	•	•	•	*Gordon Castle.*
a Nairn	82	73	8, 12	42	7th	65·7	48·6	56·6	+ 0·4	3	0·09	2	− 12	6·2	—	39	•	•	•	•	•	•	Nairn.
a Aberdeen	46	68	8th	47	8th	62·0	50·6	56·0	0·0	1	0·01	0·2	− 16	5·5	+ 0·5	35	•	•	•	•	54·6	+0·5	Aberdeen.
a Balmoral	930	78	8th	39	6th	71·6	46·9	58·5	+ 5·1	1	0·16	4	− 16	•	•	•	0	38	•	•	•	•	Balmoral.
p Crieff	432	80	9th	42	8th	73·0	49·3	60·4	+ 2·9	2	0·03	1	− 21	5·6	—	36	•	•	•	•	•	•	Balruddery.
a Leith	18	74	12th	51	7, 8	64·1	52·9	58·2	+ 0·2	1	0·01	0·2	− 16	•	•	•	•	•	•	•	•	•	
a West Linton	769	80	9th	39	7, 8	71·3	45·1	57·4	+ 3·1	2	0·05	1	—	*8·6*	—	*56*	0	31	•	•	•	•	*West Linton.*
p Marchmont	498	78	9th	44	8th	71·7	50·1	60·3	+ 4·5	0	0·00	0	− 20	6·7	+ 1·7	44	0	36	•	•	•	•	Marchmont.
a Edinburgh	*441*	*74*	*10th*	*47*	*7th*	*67·1*	*50·1*	*58·1*	—	*0*	*0·01*	*0*	—	7·3	—	47	0	41	•	•	•	•	Edinburgh.
6. *a*, SCOTLAND, W.														•	•	•	•	•	•	•	•	•	
a Poltalloch	132	75	8th	—	—	71·6	—	—	—	2	0·62	16	− 10	•	•	•	•	•	•	•	•	•	
p Glasgow Observatory	180	74	8–10	49	8th	71·6	53·6	62·1	+ 5·4	2	0·05	1	− 21	6·7	+ 2·3	44	0	39	•	•	•	•	Glasgow.
p Rothesay	170	71	8, 10	50	7th	68·9	53·3	60·6	+ 3·6	2	0·47	12	− 15	*7·5*	—	*49*	0	47	61·4	•	57·0	+2·0	*Rothesay.*
a Kilmarnock	90	82	8, 12	43	8th	77·9	49·6	62·8	+ 5·8	2	0·09	2	—	*8·3*	—	*54*	•	•	62·0	•	56·3	•	*Kilmarnock.*
a Colmonell	170	75	8, 9	45	9, 10	71·1	49·9	59·9	+ 2·8	2	0·21	5	− 18	•	•	•	0	43	•	•	•	•	
a Dumfries	160	75	8th	48	8th	71·7	52·0	61·3	+ 3·4	1	0·16	4	− 18	*7·1*	—	*46*	0	41	63·6	•	60·5	•	*Dumfries.*
Eskdalemuir	*799*	*76*	*9th*	*40*	*11th*	*70·4*	*45·6*	*57·3*	—	*1*	*0·28*	*7*	—	*8·3*	—	*54*	•	•	•	•	•	•	*Eskdalemuir.*
p Cally, Gatehouse	120	76	10th	45	7, 10	71·9	47·9	59·2	+ 2·6	1	0·39	10	− 15	•	•	•	•	•	•	•	•	•	
b, I. OF MAN. *p* Douglas	277	72	10th	51	9th	67·1	55·1	60·7	+ 3·8	1	0·08	2	− 20	8·0	+ 2·1	52	0	47	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	73	9th	40	8th	66·0	49·0	57·0	+ 0·2	0	0·00	0·1	− 17	5·9	—	38	0	35	61·5	+2·1	57·8	+1·5	Cockle Park.
a Tynemouth	71	69	10th	50	9th	62·6	52·7	57·4	− 0·3	1	0·04	1	− 14	•	•	•	•	•	•	•	•	•	Tynemouth.
p Durham	336	77	9, 10	43	8th	71·6	50·0	60·2	+ 2·3	1	0·02	0·4	− 15	6·6	+ 1·6	43	0	38	•	•	•	•	Durham.
a North .. *p* Rounton	249	79	10, 11	43	8th	72·9	50·3	60·9	+ 3·6	0	0·00	0·1	− 16	•	•	•	0	37	61·2	•	•	•	Rounton.
a West Witton	*605*	*79*	*11th*	*42*	*8th*	*72·4*	*51·1*	*61·1*	—	*1*	*0·03*	*1*	—	•	•	•	0	37	62·0	•	55·6	•	*West Witton.*
p Scarborough†	100	72	12th	50	6th	67·0	52·6	59·4	+ 1·0	0	0·00	0	− 15	5·4	—	35	•	•	•	•	54·8	•	Scarborough.
p York	56	80	10, 11	49	9th	74·3	53·4	63·2	+ 4·0	1	0·08	2	− 13	6·9	+ 1·8	45	•	•	63·0	+2·5	58·9	+1·9	York.
b, South .. *a* Spurn Head	26	70	12th	52	7, 8	64·7	54·0	59·0	− 0·4	1	0·01	0·3	− 11	*3·7*	—	*25*	•	•	•	•	•	•	*Spurn Head.*
a Lincoln	58	80	11th	50	9th	73·1	53·6	62·8	+ 3·1	0	0·00	0	− 13	•	•	•	•	•	66·4	+4·0	60·0	+2·8	Lincoln.
a Fulbeck	180	81	11th	47	9th	74·0	51·4	62·0	+ 2·3	0	0·00	0·1	− 14	6·4	—	42	•	•	64·8	−0·3	58·5	−0·4	Rauceby.
														7·3	—	48	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																							
p Cromer	196	81	12th	50	11th	69·1	52·3	60·2	+ 0·3	1	0·13	3	—	5·8	—	38	•	•	•	•	•	•	Cromer.
p Little Massingham	280	83	12th	49	9th	74·4	51·4	62·2	+ 2·3	1	0·07	2	− 14	7·3	+ 1·2	49	0	45	•	•	•	•	Lit. Massingham.
a, North .. *a* Yarmouth	13	67	12th	52	6th	64·6	54·7	59·4	− 0·9	0	0·00	0	− 14	5·9	—	39	•	•	62·3	−4·8	57·7	−4·6	Yarmouth.
a Norwich	93	80	11th	51	9–11	72·9	52·3	62·0	+ 1·9	1	0·15	4	—	*7·5*	—	*50*	0	43	65·1	•	•	•	*Norwich.*
a Geldeston	37	—	—	47	9th	—	52·0	—	—	1	0·02	1	− 12	7·3	+ 0·8	49	•	•	•	•	•	•	Geldeston.
p Cambridge	41	81	10th	48	8th	75·7	52·3	63·3	+ 3·5	1	0·02	1	− 12	6·7	+ 0·4	45	0	42	64·4	+0·2	60·1	−0·3	Cambridge.
b, South .. *a* Clacton-on-Sea	54	71	12th	53	6th	67·6	55·6	61·2	+ 0·2	0	0·00	0	—	7·4	—	50	0	51	63·4	+1·2	60·5	−0·2	Clacton.
a Rothamsted	424	80	12th	50	6, 8	74·7	53·3	63·4	+ 3·9	1	0·13	3	− 11	7·2	+ 0·6	48	0	40	62·4	•	•	•	Rothamsted.
p Tottenham	51	82	10, 12	50	8th	77·6	54·9	66·6	+ 3·9	0	0·00	0	—	6·2	—	42	0	50	•	•	62·0	+0·3	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate	479	78	11th	45	8th	71·6	51·7	61·1	+ 3·6	1	0·02	0·4	− 16	7·7	—	50	0	41	60·8	+2·7	58·6	+2·4	Harrogate.
p Buxton	*987*	*75*	*9, 11*	*47*	*8th*	*71·1*	*52·1*	*61·0*	+ *4·6*	*1*	*0·06*	*2*	− *23*	*7·0*	—	*46*	0	42	63·6	+3·0	56·4	+1·6	*Buxton.*
a Bawtry	65	80	11th	45	9th	73·9	52·0	62·3	+ 2·7	1	0·03	1	− 13	5·3	•	35	0	41	61·2	+0·5	56·1	0·0	Sheffield.
a Nottingham	82	80	9, 10	48	9th	74·1	51·0	61·9	+ 2·3	0	0·00	0	− 14	5·9	+ 0·9	39	0	39	61·6	•	57·8	•	Worksop.
b, East .. *p* Birmingham, Edgbsn.	535	78	9, 10	49	8th	74·0	54·4	63·6	+ 4·9	0	0·00	0	− 15	5·3	—	35	0	41	62·6	+0·1	59·1	−0·3	Nottingham.
a Raunds	203	81	12th	47	8, 9	75·0	51·4	62·5	+ 2·1	0	0·00	0	—	6·5	—	43	0	37	60·0	+2·1	54·0	+0·3	Birmingham.
p Oxford	208	80	9, 12	51	7, 9	75·6	54·9	64·6	+ 4·0	0	0·00	0	− 13	*7·1*	—	*47*	0	37	64·5	•	57·8	•	*Raunds.*
														6·8	+ 0·6	46	0	45	•	•	•	•	Oxford
a Cheadle	646	80	9th	48	9th	74·6	53·6	63·5	+ 6·1	1	0·06	2	− 17	•	•	•	0	47	•	•	•	•	Cheadle.
c, West .. *p* Shrewsbury	191	79	10th	45	9th	74·3	51·1	62·0	+ 2·9	1¾	0·24	6	—	•	•	•	0	39	•	•	•	•	Shrewsbury.
a Hereford§	291	80	10th	45	8th	76·0	50·3	62·4	+ 3·0	0	0·00	0	− 14	7·7	—	*51*	0	37	66·1	•	62·3	•	*Malvern.*§
a Bath	66	79	6, 9	50	9, 10	76·3	53·1	64·0	+ 4·0	0	0·00	0	− 15	7·5	—	50	•	•	66·2	+1·4	62·1	+0·7	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	79	12th	43	9th	75·0	49·6	61·5	+ 2·7	0	0·00	0	− 14	6·7	—	45	0	48	65·0	−0·7	61·1	+0·1	Worthing.
a Margate	53	78	12th	52	6th	69·1	57 7	63·1	+ 1·2	1	0·01	0·2	− 11	6·7	+ 0·8	45	0	38	62·2	•	57·4	•	Marlborough.
a Wisley, Surrey	150	83	9th	49	6th	78·0	53·9	65·2	+ 3·5	0	0·00	0	—	7·2	+ 0·8	48	0	49	67·5	+3·7	63·6	+3·7	Margate.
p Salisbury (Wilton)	180	?82	6, 10	47	9th	?78·1	51·4	?64·0	+ 2·9	0	0·00	0	− 14	5·8	—	39	0	41	63·5	−0·5	59·1	−1·5	Wisley.
a Tunbridge Wells	354	78	9, 10, 12	49	6th	75·0	53·3	63·5	+ 3·4	0	0·00	0	− 13	•	•	•	0	44	66·4	•	•	•	Salisbury.
														5·7	− 0·8	38	0	41	63·1	−2·1	59·6	•	Tunbridge Wells.
a Dungeness	21	72	12th	48	6th	68·1	55·1	61·2	+ 0·2	0	0·00	0	− 11	•	•	•	•	•	•	•	•	•	Littlestone.
p Hastings	178	72	9, 10, 12	52	7th	69·9	56·1	62·6	+ 1·4	1	0·09	2	− 11	6·9	− 0·3	46	0	48	65·3	•	61·2	•	Hastings.
p Southampton	64	82	10th	53	6th	75·4	56·3	65·3	+ 3·0	1	0·07	2	− 12	6·4	− 0·5	43	0	44	•	•	•	•	Southampton.
a Ventnor	59	78	10th	54	7th	71·9	58·3	64·7	+ 2·5	0	0·00	0	− 12	7·4	+ 0·6	50	•	•	•	•	•	•	Ventnor.
LONDON. *p* Kew Observatory	18	81	9, 10, 12	52	8th	76·8	55·8	65·7	+ 4·5	1	0·06	2	− 11	5 3	− 1·0	36	0	47	64·0	+0·5	59·0	+0·1	Kew Obs.
a Westminster	*27*	*83*	*9, 12*	*53*	*7, 8*	*77·6*	*56·4*	*66·4*	+ *5·1*	*2*	*0·12*	*3*	− *10*	*4·8*	− *0·8*	*32*	0	49	•	•	•	•	*Westminster.*
a Greenwich	*155*	*84*	*12th*	*50*	*8th*	*77·9*	*54·1*	*65·3*	+ *2·6*	*1*	*0·02*	*1*	− *12*	*5·5*	− *1·7*	*37*	0	40	•	•	•	•	*Greenwich.*
a Hampstead	*450*	*80*	*12th*	*48*	*8th*	*75·1*	*54·5*	*64 2*	—	*1*	*0·06*	*2*	—	*6·1*	—	*41*	0	36	•	•	•	•	*Hampstead.*
a Camden Square	*110*	*85*	*12th*	*51*	*8th*	*80·4*	*56·3*	*67·6*	—	*1*	*0·04*	*1*	—	*5·3*	—	*36*	0	48	•	•	•	•	*Camden Square.*
7. *a*, ENGLAND, N.W.														7·7	—	51	•	•	•	•	•	•	Hoylake.
p Aspatria (Mealsgate)	487	72	11th	44	7th	69·7	51·4	60·0	+ 3·3	1	0·07	2	− 22	9·6	—	63	0	43	61·6	•	57·0	•	Aspatria.
p Newton Rigg	559	78	8th	42	7th	73·4	47·9	59·9	+ 3·8	1	0·05	1	− 18	9·1	+ 4·0	59	0	39	63·3	+2·7	57·5	+1·0	Newton Rigg.
p Stonyhurst	375	75	11th	48	9th	71·6	52·9	61·7	+ 4·0	0	0·00	0	− 27	7·5	+ 2·4	50	0	45	•	•	•	•	Stonyhurst.
p Blackpool	66	74	11th	47	7th	71·3	52·4	61·3	+ 2·6	1	0·04	1	− 18	8·2	+ 2·7	54	0	36	64·1	•	57·9	•	Blackpool.
a Southport	37	74	7th	45	7th	71·1	51·6	60·8	+ 2·1	1	0·03	1	− 19	8·4	+ 2·6	56	0	36	65·3	+1·1	62·1	+0·7	Southport.
a Liverpool (Eidston)	188	75	11th	49	8th	71·4	54·4	62·4	+ 3·7	1	0·04	1	− 16	*7·6*	—	*50*	•	•	•	•	•	•	*Liverpool.*
a Hawarden Bridge	22	75	11th	47	8, 9	73·6	52·1	62·2	+ 2·2	0	0·00	0	− 16	*6·5*	—	*43*	0	48	64·5	+2·7	61·6	+2·6	*Manchester (City)*
p Manchester (Whit. Pk.)	125	78	9th	49	8th	75·1	54·9	64·4	+ 5·3	2	0·04	1	− 15	*7·3*	+ *2·8*	*48*	•	•	•	•	•	•	" *(Whit. Park)*
b. NORTH WALES.																							
p Llandudno	71	73	12th	50	9th	70·3	55·0	62·2	+ 2·8	0	0·00	0	− 16	9·5	+ 3·9	63	•	•	•	•	•	•	Llandudno.
a Holyhead	15	72	10th	52	6th	68·3	55·6	61·6	+ 3·1	1	0·12	3	− 14	*7·8*	—	*52*	•	•	•	•	•	•	*Holyhead.*
p Bettws-y-Coed	148	81	8th	46	7, 8	75·3	50·6	62·2	+ 3·2	1	0·10	3	—	7·6	—	50	•	•	58·7	+0·1	55·0	−0·5	Bettws-y-Coed.
														7·0	—	47	•	•	•	•	•	•	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date,	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.		Deviation from Normal.	Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts.	Lowest Reading.	Mean.	Deviation from average.	Mean.	Deviation from average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														6·4	—	43	•	•	•	•	•	•	Aberystwyth.
a Llangammarch Wells	550	75	9th	44	8th	71·7	48·3	59·3	+ 2·1	1	0·25	6	—	6·8	•	45	0	37	62·2	+2·7	56·1	+0·7	Llangammarch.
a Pembroke	149	75	6th	54	6th	67·1	56·7	61·6	+ 3·0	1	0·24	6	- 10	6·6	+ 0·2	44	•	•	•	•	•	•	Pembroke.
p Cardiff	202	77	6th	53	7-9	73·3	55·0	63·6	+ 3·2	1	0·10	3	- 20	*7·6*	—	*51*	0	50	66·1	+3·2	60·3	+0·9	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	82	9th	53	8th	77·0	55·9	65·8	+ 4·5	0	0·00	0·1	- 19	*8·0*	—	*54*	0	53	•	•	•	•	*Clifton.*
a Shaftesbury	722	78	6th	50	7th	73·3	54·1	63·1	+ 3·8	0	0·00	0	- 17	•	•	•	•	•	65·3	•	61·4	•	Shaftesbury.
a Arlington	613	77	6th	46	8th	70·9	51·9	60·8	+ 2·9	1	0·08	2	- 25	•	•	•	•	•	•	•	•	•	Arlington.
a Newquay	*190*	*73*	*7th*	*47*	*9th*	*68·4*	*53·3*	*60·4*	*- 0·1*	*0*	*0·00*	*0*	*- 13*	6·8	+ 0·1	46	•	•	65·0	•	59·5	•	Newquay.
a Cullompton	202	84	6th	44	8th	77·9	50·6	63·4	+ 3·7	1	0·14	4	- 13	6·4	+ 0·5	43	0	39	66·7	•	•	•	Cullompton.
a Portland Bill	19	69	9th	55	7, 8	66·0	57·3	61·4	+ 0·7	1	0·01	0·2	—	*6·8*	+ *0·3*	*46*	•	•	•	•	•	•	*Weymouth.*
p Plymouth	116	77	10th	53	8, 9	70·6	56·4	63·1	+ 2·4	1	0·04	1	- 15	6·7	—	46	•	•	66·9	+1·2	61·1	•	Plymouth.
a Falmouth	167	80	6th	53	9th	70·9	56·6	63·3	+ 3·2	1	0·04	1	- 17	5·9	- 1·2	40	0	44	66·4	•	62·8	•	Falmouth.
9. IRELAND, N.																							
a, West .. { *a* Malin Head	208	71	10, 11	52	7th	67·1	55·4	60·9	+ 4·4	2	0·31	8	- 12	*7·3*	•	*47*	•	•	•	•	•	•	*Malin Head.*
a Blacksod Point ..	?	79	9th	57	6th	71·0	58·6	64·4	+ 7·0	3	0·32	8	- 17	•	•	•	•	•	•	•	•	•	•
p Markree Castle ..	122	81	6th	48	10th	73·6	52·1	62·2	+ 5·7	2	0·30	8	- 16	5·9	+ 0·7	39	0	44	64·1	•	57·5	•	Markree Castle.
a Birr Castle	175	80	6th	53	9th	74·0	56·1	64·5	+ 6·6	2	0·28	7	- 14	*6·5*	+ *1·9*	*43*	•	•	•	•	•	•	*Birr Castle.*
b, East .. { *p* Armagh	196	75	6, 10	44	8th	72·0	52·3	61·6	+ 4·6	2	0·70	18	- 3	6·5	+ 2·2	42	0	39	64·6	+2·6	58·8	+0·5	Armagh.
a Donaghadee	101	69	11th	51	6th	64·6	53·4	58·7	+ 1·2	2	0·25	6	- 13	•	•	•	•	•	•	•	•	•	•
														•	•	•	0	40	64·0	+1·3	59·3	+0·9	Trinity Coll.
10. IRELAND, S.														7·1	+ 1·8	47	0	41	•	•	•	•	Phœnix Park.
p Dublin, City	47	74	12th	53	8th	71·0	57·0	63·6	+ 3·9	2	0·04	1	- 17	•	•	•	0	49	•	•	•	•	Dublin City.
a, East .. { *a* Kilkenny	212	80	6th	49	10th	72·3	54·1	62·7	+ 4·4	2	0·18	5	- 15	•	•	•	•	•	•	•	•	•	•
a Waterford	20	81	6th	52	6th	71·7	56·9	63·9	+ 5·0	2	0·64	16	- 5	•	•	•	•	•	•	•	•	•	•
a Seskin, Carrick-on-Suir	*541*	*81*	*6th*	*51*	*8th*	*70·6*	*55·0*	*62·3*	—	*2*	*0·91*	*5*	—	*4·9*	—	*33*	0	46	•	•	•	•	*Seskin.*
b, West .. { *a* Birr Castle	175	80	6th	53	9th	74·0	56·1	64·5	+ 6·6	2	0·28	7	- 14	6·5	+ 1·9	43	•	•	•	•	•	•	Birr Castle.
a Foynes	50	79	6th	53	7th	74·0	56·6	64·8	+ 6·2	4	0·32	8	- 15	•	•	•	•	•	•	•	•	•	•
a Cahir	199	82	6th	49	10th	73·6	54·1	63·3	+ 4·8	2	0·09	2	—	•	•	•	•	•	•	•	•	•	•
a Killarney	174	85	6th	55	7th	76·5	59·4	67·4	+ 9·1	3	1·05	27	+ 2	•	•	•	•	•	•	•	•	•	•
a Valencia	30	78	7th	55	7th	70·9	59·6	64·9	+ 6·3	3	1·54	39	+ 11	6·3	+ 1·3	42	•	•	•	•	•	•	Valencia.
a Roche's Point ..	32	71	9, 10	56	7th	69·7	59·4	64·2	+ 5·3	2	0·24	6	- 15	5·6	—	38	•	•	•	•	•	•	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	74	10th	57	6, 7	70·1	58·7	64·1	+ 3·4	2	0·20	5	- 9	7·4	+ 0·1	50	•	•	•	•	•	•	Scilly.
a Jersey, St. Aubins ..	25	75	6, 9, 12	52	6th	72·9	56·6	64·3	+ 1·7	1	0·01	0·2	- 14	9·4	+ 1·5	64	•	•	•	•	•	•	St. Heliers.
a Guernsey (Villa Carey)	180	78	12th	52	6th	72·4	56·7	64·1	+ 2·6	0	0·00	0	- 15	8·2	+ 0·1	56	0	44	67·2	+2·1	63·9	+2·2	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, August 12th, 1916.

DISTRICT AND STATION.	Height.			Distribution of Wind.								Extreme Velocities.					
				Gales, force 8 or more.		High Winds, forces 6 and 7.		Fresh or Moderate Winds, forces 4 and 5.	Light Winds, forces 2 and 3.	Calms and Light Airs, forces 0 and 1.	No Record.	Highest Hourly Wind.			Highest Gust with Date and Time, G.M.T.		
	Above Mean Sea Level.	Above Ground.	Above Building.	Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Velocity.		Date and Hour, G.M.T.			
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.		m/s.	d.	h. m.
1. SCOTLAND, E.																	
Dyce	305	75	‡15**	—	—	—	—	—	72	96	0	—	5	12th 18h.	12	12th	15 . 38
Aberdeen*	153	105 { 87 52 } †		—	—	—	—	6	94	68	0	NW. by N.	6	6th 9h.	13	12th	17 . 57
Edinburgh	485	39	31	—	—	—	—	5	72	76	15	S.	10	12th 22h.	15	12th	21 . 35
6. SCOTLAND, W.																	
Eskdalemuir	850	50	22	—	—	—	—	14	90	64	0	SSW.	9	12th 24h.	13	12th	23 . 47
Paisley	188	81	52	—	—	—	—	11	88	59	0	SSW.	8	12th 18h.	15	12th	19 . 16
2. ENGLAND, N.E.																	
Alnwick Castle	340	70	17	—	—	—	—	1	48	117	2	S.	6	12th 19h.	10	12th	19 . 30
South Shields	72	61	12	—	—	—	—	16	90	58	4	SE. by S.	9	8th 15h.	10	8th	15 . 20
Spurn Head	66	40	‡	—	—	—	—	12	110	46	0	S.	8	12th 17h.	9	12th	16 . 20
3. ENGLAND, E.																	
Gorleston	52	42	‡	—	—	—	—	41	106	21	0	—	8	12th 12h.	11	6th	11 . 47
Shoeburyness	103	90	‡	—	—	—	—	25	115	28	0	S. by W.	8	12th 15h.	11	6th	19 . 44
4. MIDLAND COUNTIES.																	
Benson	270	84	‡	—	—	—	—	15	90	63	0	S.	10	12th 12h.	15	12th	13 . 4
5. ENGLAND, S.E.																	
Dover	271	40	‡	—	—	—	—	16	72	80	0	—	8	8th 16h.	12	12th	21 . 45
Warlingham	642	33	‡	—	—	—	—	—	62	106	0	—	5	12th 14h.	11	12th	14 . 38
Brighton	261	53	6	—	—	—	—	6	95	67	0	—	6	8th 23h.	10	9th	1 . 0
Kew Observatory ..	82	65 { 6 22 } †		—	—	—	—	4	77	85	2	NE.	7	6th 20h.	12	12th	13 . 42
South Kensington ..	123	92	30	—	—	—	—	—	78	90	0	S.	5	12th 13h.	9	12th	13 . 25
7. ENGLAND, N.W.																	
Carnforth	246	56	23	—	—	—	—	—	21	147	0	SSW.	3	10th 16h.	7	12th	11 . 7
Southport	80	62	48	—	—	—	—	21	136	11	0	ENE.	8	6th 17h.	15	12th	16 . 4
Holyhead*	60	40	‡	—	—	6th	3	60	69	36	0	ENE.	13	6th 21h.	16	6th	20 . 35
8. ENGLAND, S.W.																	
Pendennis Castle§ ..	256	65	24	—	—	12th	2	68	62	36	0	SSW.	12	12th 14h.	16	12th	12 . 19
Plymouth	185	88	2	—	—	—	—	23	79	66	0	—	7	8th 9h.	14	8th	8 . 25
Lyme Regis	556	61	‡	—	—	—	—	1	59	108	0	—	6	10th 18h.	9	12th	17 . 10
10. IRELAND, S.																	
Quilty	100	40	‡	—	—	12th	1	50	73	38	6	—	11	12th 13h.	18	12th	2 . 57
Weaver Pt.	160	30	‡	—	—	12th	3	51	97	17	0	—	11	12th 13h.	16	12th	14 . 20
11. ENGLISH CHANNEL.																	
Scilly*	150	{ 32 19 }	‡	—	—	—	—	27	69	72	0	ESE.	9	7th 10h.	14	7th	11 . 5

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.

† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

THIRTY-SECOND WEEK—August 6th to August 12th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Accumulated Number of Day-Degrees. Deviation from Normal.	Accumulated Number of Day-Degrees. Below 42°	Accumulated Number of Day-Degrees. Deviation from Normal.	Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	°F.	°F.	°A. 200+	°A. 200+	°A. 200+	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	79	40	92·1	83·1	87·3	+ 1·6	110	+ 20	0	0	2	− 3	0·13	3	− 21	6·4	+2·8	41	1021
Eastern.																			
1. SCOTLAND, EAST ...	80	39	93·3	82·4	87·6	+ 1·2	113	+ 13	0	0	1	− 3	0·05	1	− 17	6·4	+1·6	41	1021
2. ENGLAND, N.E.	81	40	93·9	84·1	88·7	+ 1·0	127	+ 12	0	0	1	− 2	0·02	1	− 14	6·4	+1·0	42	1022
3. ENGLAND, EAST ...	83	48	95·3	84·9	89·8	+ 1·1	141	+ 13	0	0	1	− 2	0·06	2	− 10	6·7	+0·6	45	1022
4. MIDLAND COUNTIES ...	81	45	96·6	84·3	90·1	+ 1·9	146	+ 24	0	0	1	− 2	0·04	1	− 13	6·4	+0·9	43	1021
5. ENGLAND, S.E.	83	43	96·2	85·7	90·6	+ 1·3	152	+ 17	0	0	1	− 2	0·02	1	− 11	6·5	0·0	43	1021
Western.																			
6. SCOTLAND, WEST ...	82	43	94·9	83·9	89·1	+ 2·3	133	+ 29	0	0	2	− 2	0·26	7	− 18	7·4	+2·2	48	1021
7. ENGLAND, N.W. ...	81	42	95·2	84·5	89·6	+ 1·8	139	+ 23	0	0	1	− 3	0·05	1	− 19	8·3	+3·0	55	1021
8. ENGLAND, S.W.	84	44	95·2	85·4	89·9	+ 1·6	144	+ 21	0	0	1	− 3	0·09	2	− 15	6·5	+0·3	44	1021
9. IRELAND, NORTH ...	81	44	94·3	85·6	89·7	+ 2·6	141	+ 34	0	0	2	− 2	0·36	9	− 14	6·2	+1·9	41	1019
10. IRELAND, SOUTH ...	85	49	95·6	86·9	91·0	+ 3·1	157	+ 38	0	0	2	− 2	0·49	12	− 11	6·4	+1·3	43	1019
11. ENGLISH CHANNEL ...	78	52	95·1	87·1	90·9	+ 1·3	155	+ 17	0	0	1	− 3	0·07	2	− 12	8·3	+0·2	57	1021

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 10 Weeks, June 4th to August 12th, 1916.

0. SCOTLAND, NORTH ...	81	35	88·4	82·1	85·0	− 0·2	816	− 32	0	− 2	38	− 4	5·84	149	− 44	3·4	−1·1	20	1015
Eastern.																			
1. SCOTLAND, EAST ...	82	30	89·9	81·6	85·5	− 0·6	876	− 80	2	+ 1	36	0	7·75	196	+ 40	4·2	−1·3	25	1015
2. ENGLAND, N.E.	84	32	90·7	82·6	86·4	− 0·7	985	− 89	0	0	31	0	4·20	106	− 25	4·9	−1·2	30	1016
3. ENGLAND, EAST ...	83	36	91·4	83·1	87·0	− 1·1	1063	−143	0	0	32	+ 2	3·72	95	− 28	5·1	−1·6	32	1017
4. MIDLAND COUNTIES ...	87	34	92·3	82·6	87·1	− 0·8	1079	− 97	0	0	27	− 3	3·47	89	− 43	5·1	−0·9	32	1017
5. ENGLAND, S.E.	86	35	92·1	83·3	87·4	− 1·2	1116	−149	0	0	25	− 3	3·22	83	− 35	6·2	−0·7	39	1017
Western.																			
6. SCOTLAND, WEST ...	83	32	90·8	82·7	86·5	− 0·1	998	− 16	0	0	32	− 5	5·22	134	− 63	5·8	0·0	35	1015
7. ENGLAND, N.W.	83	37	90·6	83·5	86·8	− 0·6	1046	− 66	0	0	26	− 8	3·96	100	− 62	5·8	−0·3	36	1017
8. ENGLAND, S.W.	84	35	91·6	83·4	87·2	− 0·7	1092	− 81	0	0	25	− 8	4·07	105	− 50	6·8	+0·3	43	1018
9. IRELAND, NORTH ...	81	35	89·9	83·0	86·3	− 0·4	972	− 52	0	0	33	− 9	4·15	108	− 73	5·0	+0·1	30	1017
10. IRELAND, SOUTH ...	85	35	91·9	83·9	87·6	+ 0·1	1138	+ 4	0	0	34	− 2	4·79	121	− 52	6·2	+0·7	39	1018
11. ENGLISH CHANNEL ...	80	40	91·4	84·8	87·9	− 0·7	1181	− 83	0	0	22	−11	1·99	51	− 69	7·8	−0·2	50	1018

THE YEAR.—Aggregates, &c., for the Period of 32 Weeks, January 2nd to August 12th, 1916.

0. SCOTLAND, NORTH ...	81	20	83·4	77·6	80·4	0·0	1235	− 61	454	−103	153	+ 7	32·14	815	+ 93	3·0	−0·6	22	1010
Eastern.																			
1. SCOTLAND, EAST ...	82	7	84·1	77·0	80·4	− 0·2	1343	−144	585	− 35	137	+17	24·37	620	+179	3·6	−0·7	27	1011
2. ENGLAND, N.E.	84	20	85·3	78·3	81·6	+ 0·3	1648	+ 22	379	− 96	118	+10	15·40	391	+ 43	3·9	−0·7	30	1012
3. ENGLAND EAST ...	83	24	86·0	78·7	82·2	+ 0·3	1847	− 50	353	−168	117	+12	15·58	394	+ 60	4·2	−0·7	32	1013
4. MIDLAND COUNTIES ...	87	21	86·3	78·1	82·0	+ 0·1	1839	− 56	405	−128	113	+ 9	16·29	416	+ 38	3·9	−0·5	30	1013
5. ENGLAND, S.E.	86	15	86·6	79·1	82·7	+ 0·1	1989	− 43	294	− 87	112	+13	16·06	408	+ 47	4·7	−0·3	36	1014
Western.																			
6. SCOTLAND, WEST ...	83	17	24·9	78·3	81·5	0·0	1570	− 36	365	− 60	136	+10	24·75	632	− 17	4·2	−0·2	32	1012
7. ENGLAND N.W.	83	8	85·3	79·0	82·0	+ 0·1	1721	− 15	310	− 76	120	+ 5	19·11	486	+ 13	4·2	−0·2	31	1013
8. ENGLAND, S.W.	84	17	86·3	79·3	82·5	− 0·1	1871	− 67	279	− 22	120	+ 7	20·83	535	+ 21	4·8	−0·1	37	1014
9. IRELAND NORTH ...	81	18	84·9	78·5	81·6	− 0·2	1581	−103	334	− 11	144	+ 7	21·86	560	+ 22	3·9	−0·1	29	1012
10. IRELAND, SOUTH ...	85	20	86·2	79·3	82·6	− 0·1	1911	− 42	244	− 15	150	+28	21·89	553	− 14	4·5	0·0	34	1015
11. ENGLISH CHANNEL ...	80	30	86·5	81·1	83·7	0·0	2154	− 29	85	− 24	119	− 1	16·46	416	− 7	5·5	−0·4	43	1015
	°F.	°F.	°A.	°A.	°A.	°A.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., August 17th, 1916.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 129

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 33. SUNDAY, AUGUST 13TH, TO SATURDAY, AUGUST 19TH, 1916. *Price 6d., Post free 7d.* *Annual Subscription Post Paid £1 10s. 0d.*

I.—THE THIRTY-THIRD WEEK OF 1916.

After about three weeks of almost complete drought the weather became very rainy or showery, with frequent thunderstorms. Except in the south-west of England and the Channel Islands more or less rain fell almost daily, and in several localities the fall within 24 hours exceeded 25 mm. Among the heaviest were 35 mm. at Poltalloch on the 13th; 32 mm. at Stonyhurst and 38 mm. at Markree on the 14th; 34 mm. at Burnley and 28 mm. at West Witton on the 15th; 33 mm. at Cullompton and 51 mm. at Killarney on the 16th; 29 mm. at Tottenham and 42 mm. at Cheadle on the 17th. At Rothesay 25 mm. fell between 14h. and 16h. on the 15th, and at Benson a thunder shower gave 5·4 mm. in 3½ minutes on the 17th. In all districts except Scotland North, Ireland South, and the English Channel the total fall was heavy or very heavy. Temperature was above the normal in all districts, but the excess of warmth was much more marked early in the week than towards its close. The highest of the maxima were mostly recorded on the 13th, and ranged from 301a. in England East (at Tottenham) to 294a. in Ireland North. Early in the period the minimum readings were high—about 288a. in many places—but later the nights became relatively cool, and at the end of the week the minima ranged from 281a. in England North-West and Scotland East to 283·6a. in the English Channel. The general character of the weather was very cloudy or overcast and the records of bright sunshine were mostly scanty or very scanty. In Scotland East the mean daily deficiency was 3·5 hours and in the north and north-east of the kingdom generally, and also in the Midland Counties it exceeded 2 hours. In Scotland North the percentage of the possible duration was 10 and in Scotland East only 9. The temperature of the sea surface water was above the average generally. At Cleggan the mean value 290a., was as much as 2·7a. above. At Wick, however, the mean was 1·7a. below the average.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.
		m/s		m/s		m/s		m/s		m/s		m/s		m/s		m/s
South	2	2·9	4	2·2	5	3·0	5	3·5	3	4·3	1	2·1	5	2·9	2	3·9
North	5	3·1	3	2·8	2	1·5	2	1·5	3	3·6	5	3·3	2	2·5	4	3·4
West	1	1·3	3	1·8	6	1·9	7	1·9	7	3·3	6	5·3	6	4·8	7	3·9
East	5	3·8	4	2·0	1	1·7	¼	2·0	0	—	0	—	1	1·4	¼	0·6
Calm	0	—	0	—	0	—	0	—	0	—	¼	—	0	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c is printed on a separate sheet. *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Moderate	Heavy	Very heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Heavy	Moderate	Moderate
	Sunshine ...	Very scanty	Very scanty	Scanty	Scanty	Scanty	Scanty	Moderate	Scanty	Scanty	Scanty	Scanty	Scanty

II.—THE SUMMER SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SUMMER. 11 weeks from June 4th, 1916.	Warmth ...	5, 1, 5	5, 0, 6	4, 1, 6	3, 0, 8	4, 1, 6	3, 1, 7	5, 0, 6	4, 2, 5	4, 1, 6	5, 1, 5	5, 1, 5	4, 1, 6
	Rainfall ...	2, 4, 5	5, 1, 5	4, 4, 3	3, 5, 3	3, 4, 4	3, 4, 4	4, 2, 5	3, 3, 5	4, 1, 6	1, 5, 5	3, 3, 5	1, 4, 6
	Sunshine ...	1, 5, 5	4, 0, 7	3, 0, 8	1, 3, 7	3, 0, 8	1, 4, 6	4, 3, 4	4, 0, 7	3, 3, 5	4, 2, 5	5, 1, 5	2, 5, 4

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.) and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.

Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(8972—19.) Wt. 79a—736. 450. 8/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average.	
0. SCOTLAND, N.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
p Baltasound	*31*	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	*Baltasound.*
a, Islands.. *a* Lerwick	54	61	13th	48	17th	58·1	50·9	53·3	+ 1·1	5	0·30	8	—	1·5	- 2·4	10	*	*	*	*	*	*	Deerness.
a Stornoway	51	66	14th	48	19th	60·1	52·4	56·0	+ 1·8	6	0·44	11	- 13	2·9	- 1·4	19	*	*	*	*	*	*	Stornoway.
a Castlebay, Barra Isd.	*37*	*65*	*15, 16*	*51*	*18th*	*60·9*	*53·7*	*57·1*	+ *2·4*	*2*	*0·36*	*9*	—	*4·8*	—	*32*	*	*	*	*	*	*	*Castlebay.*
a Wick	81	61	13th	48	18th	55·9	51·3	53·5	- 0·9	6	0·88	22	+ 5	*	*	*	*	*	*	*	*	*	
b, Mainland. *p* Strathpeffer	200	68	14th	49	18th	61·7	52·9	57·0	+ 1·5	6	0·57	14	- 1	0·8	- 3·1	5	*	*	*	*	*	*	Strathpeffer.
p Glencarron	500	71	13th	46	16th	63·1	49·6	56·0	+ 2·3	6	0·84	21	- 20	*	*	*	*	*	*	*	*	*	
p Fort Augustus	68	68	14th	50	14th	62·1	53·4	57·5	+ 1·8	5	0·34	9	- 11	1·1	- 1·8	7	*	*	*	*	*	*	Fort Augustus.
p Fort William	171	71	14th	51	14, 19	66·0	53·1	59·2	+ 3·0	5	1·35	34	- 2	*	*	*	*	*	*	*	*	*	
1. SCOTLAND, E.														0·5	—	3	0	42	60·3	+1·8	57·0	+1·2	Crathes.
p Gordon Castle	101	75	13th	47	18th	61·3	53·0	56·9	+ 0·8	7	1·10	28	+ 8	*1·1*	—	*7*	*	*	*	*	*	*	*Gordon Castle.*
a Nairn	82	72	13th	48	18th	61·0	52·4	56·4	+ 0·4	7	0·57	15	+ 1	1·3	—	9	*	*	*	*	*	*	Nairn.
a Aberdeen	46	70	13th	47	18, 19	60·3	52·9	56·4	+ 0·4	6	0·47	12	- 4	0·7	- 4·2	5	*	*	*	*	54·6	+0·2	Aberdeen.
a Balmoral	930	68	14th	47	18th	61·9	52·0	56·7	+ 3·7	5	1·28	33	+ 12	*	*	*	0	46	*	*	*	*	Balmoral.
p Crieff	432	71	14th	46	19th	65·9	51·7	58·4	+ 1·3	7	0·80	20	- 4	2·0	—	13	*	*	*	*	*	*	Balruddery.
a Leith	18	70	13th	53	19th	63·3	55·3	59·1	+ 1·1	6	1·34	34	+ 17	*	*	*	*	*	*	*	*	*	
a West Linton	769	68	14th	49	15th	63·4	51·9	57·3	+ 3·5	6	1·28	33	—	*2·2*	—	*15*	0	43	*	*	*	*	*West Linton.*
p Marchmont	498	69	13th	50	18, 19	62·3	53·4	57·6	+ 2·0	6	1·63	41	+ 21	2·3	- 2·6	15	0	50	*	*	*	*	Marchmont.
a Edinburgh	*441*	*69*	*13th*	*51*	*13, 18*	*62·1*	*53·0*	*57·3*	—	*5*	*1·34*	*34*	—	1·7	—	11	*	*	*	*	*	*	Edinburgh.
6. *a*, SCOTLAND, W.																							
a Poltalloch	132	70	16th	—	—	64·4	—	—	—	4	2·23	57	+ 30	*	*	*	*	*	*	*	*	*	
p Glasgow Observatory	180	69	14th	53	19th	65·6	55·4	60·2	+ 3·8	7	0·75	19	- 4	3·9	- 0·4	26	0	45	*	*	*	*	Glasgow.
p Rothesay	170	70	17th	48	19th	65·3	52·9	58·7	+ 2·0	7	2·43	62	+ 34	*3·9*	—	*26*	0	45	60·7	*	57·5	+1·9	*Rothesay.*
a Kilmarnock	90	75	15th	48	15th	70·6	53·0	61·3	+ 4·7	7	1·29	33	—	*3·2*	—	*21*	*	*	61·0	*	57·9	*	*Kilmarnock.*
a Colmonell	170	71	13th	51	15, 19	66·4	53·1	59·4	+ 2·4	5	1·28	33	+ 9	*	*	*	0	47	*	*	*	*	
a Dumfries	160	67	17th	53	15-19	64·7	54·4	59·2	+ 1·6	6	0·70	18	- 4	*2·6*	—	*17*	0	48	62·2	*	60·9	*	*Dumfries.*
Eskdalemuir	*799*	*63*	*13, 14, 17*	*48*	*19th*	*61·6*	*52·4*	*56·7*	—	*7*	*1·04*	*27*	—	*2·2*	—	*15*	*	*	*	*	*	*	*Eskdalemuir.*
p Cally, Gatehouse	120	70	17th	49	19th	67·1	52·0	59·1	+ 3·0	7	1·38	35	+ 8	*	*	*	*	*	*	*	*	*	
b, I. OF MAN. *p* Douglas	277	65	17th	52	18, 19	63·1	54·1	58·3	+ 1·6	4	0·80	20	- 4	4·5	- 1·2	30	0	49	*	*	*	*	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	75	13th	50	16th	64·9	53·3	58·8	+ 2·2	7	0·40	10	- 7	2·3	—	15	0	43	59·2	+0·9	57·5	+1·2	Cockle Park.
a Tynemouth	71	71	13th	52	19th	61·4	55·6	58·3	+ 0·9	4	0·59	15	0	*	*	*	*	*	*	*	*	*	Tynemouth.
p Durham	336	71	13th	49	19th	64·3	53·0	58·3	+ 0·7	7	1·73	44	+ 30	1·6	- 3·2	11	0	45	*	*	*	*	Durham.
a North .. *p* Rounton	249	71	13, 14	50	18, 19	64·9	53·9	59·1	+ 2·0	6	0·92	23	+ 7	*	*	*	0	46	61·2	*	*	*	Rounton.
a West Witton	*605*	*70*	*13th*	*49*	*19th*	*63·9*	*53·9*	*58·6*	—	*6*	*1·78*	*45*	—	*	*	*	0	44	61·1	*	55·8	*	*West Witton.*
p Scarborough†	100	73	13th	53	16, 19	65·6	55·3	60·1	+ 1·9	5	1·88	48	+ 32	2·4	—	16	*	*	*	*	55·0	*	Scarborough.
p York	56	75	13th	53	19th	67·7	55·9	61·5	+ 2·7	7	2·32	59	+ 44	2·0	- 2·9	14	*	*	62·4	+2·2	59·0	+1·5	York.
a Spurn Head	26	77	13th	54	19th	67·4	56·3	61·5	+ 2·3	6	0·91	23	+ 12	2·5	—	*17*	*	*	*	*	*	*	*Spurn Head.*
b, South .. *a* Lincoln	58	76	13th	51	19th	69·3	55·6	62·0	+ 2·6	7	2·34	59	+ 46	*	*	*	*	*	64·3	+2·5	60·4	+2·3	Lincoln.
a Fulbeck	180	76	13th	51	19th	70·1	54·9	62·0	+ 2·6	7	1·19	30	+ 16	4·0	—	27	?	?	64·2	-0·5	59·0	-0·4	Rauceby.
														3·7	—	25	*	*	*	*	*	*	Skegness.
3. ENGLAND, E.																							
p Cromer	196	75	13, 14	52	16, 17	70·1	54·9	62·0	+ 2·6	6	1·30	33	—	4·3	—	29	*	*	*	*	*	*	Cromer.
a, North .. *p* Little Massingham	280	78	13, 14	50	15th	71·0	53·7	61·8	+ 2·3	7	0·84	21	+ 5	4·0	- 1·8	27	0	46	*	*	*	*	Lit. Massingham.
a Yarmouth	13	74	13th	55	15-19	68·1	56·3	61·9	+ 2·0	6	0·80	20	+ 6	3·7	—	25	*	*	62·4	-3·9	58·1	-4·5	Yarmouth.
a Norwich	93	74	13, 14	52	18th	69·6	55·2	62·0	+ 2·4	6	1·22	31	—	*3·9*	—	*27*	0	45	64·4	*	*	*	*Norwich.*
a Geldeston	37	77	13th	54	17th	69·0	56·4	62·3	+ 2·9	5	1·09	28	+ 15	3·1	- 3·2	21	*	*	*	*	*	*	Geldeston.
p Cambridge	41	76	13, 14	53	17, 19	70·4	55·7	62·6	+ 2·1	5	0·79	20	+ 7	3·4	- 2·7	23	0	46	63·7	+0·2	60·6	-0·1	Cambridge.
b, South .. *a* Clacton-on-Sea	54	71	13th	55	18, 19	68·4	58·7	63·3	+ 2·3	5	0·48	12	—	4·9	—	34	0	53	63·8	+1·4	61·0	+0·1	Clacton.
a Rothamsted	424	72	13th	53	17-19	66·7	55·1	60·6	+ 1·4	6	1·50	38	+ 24	3·5	- 2·8	24	0	46	61·6	*	*	*	Rothamsted.
p Tottenham	51	82	13th	55	18th	70·4	57·7	63·7	+ 2·8	6	2·15	55	—	3·3	—	23	0	54	*	*	62·7	+0·5	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate	479	74	13th	48	19th	64·9	53·3	58·8	+ 1·8	7	1·09	28	+ 12	1·9	—	13	0	45	60·4	+2·6	58·8	+2·4	Harrogate.
p Buxton	*987*	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	*Buxton.*
														2·9	—	20	0	46	60·6	+0·5	56·5	+0·3	Sheffield.
a Bawtry	65	75	13th	51	19th	67·9	55·6	61·4	+ 2·3	7	1·04	26	+ 12	2·7	- 2·1	18	0	44	61·2	*	58·0	*	Worksop.
a Nottingham	82	77	13th	51	19th	68·7	55·6	61·8	+ 2·6	7	1·10	28	+ 14	2·6	—	18	0	46	61·7	-0·8	59·8	+0·1	Nottingham.
b, East .. *p* Birmingham, Edgbsn.	535	72	13th	53	18th	67·3	55·7	61·2	+ 2·8	6	0·98	25	+ 9	4·1	—	28	0	48	58·7	+1·0	54·7	+0·4	Birmingham.
a Raunds	605	77	13, 14	49	19th	71·1	54·3	62·2	+ 2·6	7	0·81	21	—	*4·3*	—	*29*	0	37	64·4	*	58·0	*	*Raunds.*
p Oxford	208	74	14th	52	18th	68·9	56·3	62·2	+ 2·0	5	1·34	34	+ 21	4·4	- 1·6	30	0	45	*	*	*	*	Oxford
a Cheadle	646	70	13, 14	50	18th	64·7	54·3	59·2	+ 2·2	7	2·88	73	+ 53	*	*	*	0	45	*	*	*	*	Cheadle.
c, West .. *p* Shrewsbury	191	72	13, 14	51	18, 19	68·0	54·1	60·6	+ 1·7	6	0·50	13	—	*	*	*	0	46	*	*	*	*	Shrewsbury.
a Hereford§	291	—	—	—	—	—	—	—	—	—	—	—	—	*5·0*	—	*34*	0	51	64·5	*	62·6	*	*Malvern.§*
a Bath	66	77	13th	52	18th	69·6	56·0	62·4	+ 2·6	5	1·32	34	+ 18	3·4	—	24	*	*	64·9	+0·5	62·3	+0·6	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	70	13th	48	18th	67·0	54·4	60·3	+ 2·3	5	1·28	32	+ 17	5·3	—	37	0	52	65·3	0·0	61·5	+0·1	Worthing.
a Margate	53	74	13th	55	18th	69·6	58·0	63·5	+ 2·0	4	0·20	5	- 6	4·2	- 1·6	29	0	44	61·5	*	57·5	*	Marlborough.
a Wisley, Surrey	150	76	13th	52	18th	69·6	56·0	62·4	+ 2·1	7	1·54	39	—	5·7	- 0·5	40	0	50	67·3	+3·9	64·4	+4·0	Margate.
p Salisbury (Wilton)	180	73	13, 14	50	18th	68·4	55·6	61·6	+ 0·8	5	1·11	28	+ 14	4·3	—	30	0	44	63·1	-0·4	59·6	-1·4	Wisley.
a Tunbridge Wells	354	71	13, 14	53	16, 19	68·4	55·9	61·8	+ 1·9	6	0·60	15	+ 2	*	*	*	0	47	65·0	*	*	*	Salisbury.
														4·4	- 1·9	31	0	43	62·9	-1·7	60·1	*	Tunbridge Wells.
a Dungeness	21	69	18, 19	54	18, 19	67·0	57·7	62·1	+ 1·1	3	0·20	5	- 6	*	*	*	*	*	*	*	*	*	Littlestone.
p Hastings	178	68	13, 19	55	19th	66·9	58·0	62·2	+ 1·2	4	0·65	16	+ 2	4·9	- 2·0	34	0	50	64·9	*	61·8	*	Hastings.
p Southampton	64	73	14th	52	18th	69·0	57·3	62·8	+ 0·6	5	1·10	28	+ 13	5·1	- 1·6	35	0	46	*	*	*	*	Southampton.
a Ventnor	59	71	18th	56	19th	68·6	59·4	63·7	+ 1·7	3	0·17	4	- 8	5·4	- 1·3	37	*	*	*	*	*	*	Ventnor.
LONDON. *p* Kew Observatory	18	75	13th	54	18th	68·7	57·4	62·7	+ 1·9	6	1·54	39	+ 26	3·2	- 2·9	22	0	50	63·3	+0·1	59·5	-0·2	Kew Obs.
a Westminster	*27*	*75*	*13th*	*55*	*19th*	*70·3*	*58·2*	*63·9*	+ *2·8*	*6*	*2·66*	*68*	+ *55*	*3·7*	- *1·8*	*26*	0	53	*	*	*	*	*Westminster.*
a Greenwich	*155*	77	*13th*	*54*	*16, 19*	*71·3*	*56·4*	*63·4*	+ *1·4*	*6*	*1·13*	*29*	+ *17*	*3·9*	- *3·0*	*27*	0	49	*	*	*	*	*Greenwich.*
a Hampstead	*450*	*72*	*13, 14*	*51*	*19th*	*67·5*	*54·7*	*60·7*	—	*6*	*2·18*	*55*	—	*2·9*	—	*20*	0	43	*	*	*	*	*Hampstead.*
a Camden Square	*110*	77	*13th*	*54*	*19th*	*71·7*	*57·3*	*64·1*	—	*6*	*2·69*	*68*	—	*3·2*	—	*22*	0	53	*	*	*	*	*Camden Square.*
7. *a*, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	66	13th	49	19th	63·1	52·6	57·5	+ 0·8	7	2·04	52	+ 27	3·2	—	21	0	48	60·0	*	57·2	*	Aspatria.
p Newton Rigg	559	66	13, 14	46	18, 19	64·3	51·9	57·7	+ 1·8	7	0·83	21	+ 1	2·1	- 2·8	14	0	42	61·7	+1·5	57·8	+1·1	Newton Rigg.
p Stonyhurst	375	70	13th	49	19th	64·4	54·4	59·1	+ 1·8	7	3·17	81	+ 54	2·8	- 2·1	19	0	44	*	*	*	*	Stonyhurst.
p Blackpool	66	72	13th	50	18th	65·9	55·9	60·6	+ 2·0	6	1·35	34	+ 13	3·8	- 1·5	26	0	39	63·5	*	58·2	*	Blackpool.
a Southport	37	73	13th	52	18th	65·7	55·9	60·5	+ 1·9	7	2·96	75	+ 53	4·1	- 1·5	28	0	45	64·2	+0·6	61·9	+0·4	Southport.
a Liverpool (Bidston)	188	74	13th	55	16, 19	65·4	56·4	60·6	+ 2·2	5	1·26	32	+ 14	*3·6*	—	*24*	*	*	*	*	*	*	*Liverpool.*
a Hawarden Bridge	22	71	13, 14	52	17, 19	65·9	54·6	59·9	+ 0·1	7	1·26	32	+ 15	*1·7*	—	*12*	0	48	63·6	+2·1	62·1	+2·7	*Manchester (City)*
p Manchester (Whit. Pk.)	125	73	13th	53	18, 19	65·9	56·1	60·7	+ 2·1	6	1·17	30	+ 14	*1·3*	- *2·9*	*9*	*	*	*	*	*	*	" *(Whit. Park)*
b, NORTH WALES.																							
p Llandudno	71	71	13th	55	19th	64·6	57·4	60·8	+ 1·5	6	1·35	34	+ 17	4·3	- 1·1	29	*	*	*	*	*	*	Llandudno.
a Holyhead	15	66	13th	55	19th	64·0	56·6	60·1	+ 1·2	6	0·94	24	+ 6	5·7	—	*39*	*	*	*	*	*	*	*Holyhead.*
p Bettws-y-Coed	148	70	13th	49	17, 19	65·0	53·1	58·7	- 0·2	6	1·92	49	—	2·6	—	18	*	*	59·0	+0·6	55·9	-0·5	Bettws-y-Coed.
														2·2	—	15	*	*	*	*	*	*	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. in Degrees Fahrenheit.				Mean for the Week.				Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.		Deviation from Normal.	Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														3·0	—	21							
a Llangammarch Wells	550	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	Aberystwyth. Llangammarch.
a Pembroke	149	66	13th	53	17th	64·0	56·3	59·9	+ 1·2	2	0·56	14	- 3	5·6	- 0·7	38	*	*	*	*	*	*	Pembroke.
p Cardiff	202	71	13th	51	19th	67·3	55·3	60·9	+ 0·6	5	0·72	18	- 7	*5·8*	—	*40*	0	48	64·4	+1·3	60·8	+0·9	*Cardiff.*
b, ENGLAND, S.W.														*	*	*	*	*	*	*	*	*	
a Clifton	229	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	*Clifton.*
a Shaftesbury	722	69	14th	51	18th	65·4	54·1	59·4	+ 0·7	5	1·72	44	+ 27	*	*	*	*	*	62·8	*	61·0	*	Shaftesbury.
a Arlington	613	69	13th	50	17th	65·6	54·0	59·5	+ 1·8	5	2·19	56	+ 28	*	*	*	*	*	*	*	*	*	Arlington.
a Newquay	*190*	*73*	*15th*	*55*	*18th*	*67·7*	*57·0*	*62·0*	+ *2·0*	*5*	*1·49*	*38*	+ *25*	4·7	- 1·6	33	*	*	64·2	*	59·9	*	Newquay.
a Cullompton	202	73	13, 14	51	17th	69·1	55·1	61·7	+ 2·3	4	2·19	56	+ 39	3·7	- 2·2	26	0	45	63·8	*	*	*	Cullompton.
a Portland Bill	19	68	19th	56	17, 19	65·0	58·3	61·5	+ 0·6	4	0·40	10	—	*4·9*	—	*34*	*	*	*	*	*	*	*Weymouth.*
p Plymouth	116	71	13th	54	17, 18	68·3	57·4	62·5	+ 2·1	4	1·08	27	+ 11	5·1	- 1·3	35	*	*	64·8	-0·1	61·1	*	Plymouth.
a Falmouth	167	72	13th	53	17th	68·0	57·1	62·2	+ 2·3	4	0·77	20	+ 1	5·7	- 1·2	40	0	47	64·9	*	62·8	*	Falmouth.
9. IRELAND, N.																							
a, West .. *a* Malin Head	208	65	14th	53	18, 19	60·7	54·6	57·5	+ 1·0	5	1·54	39	+ 19	2·2	*	*15*	*	*	*	*	*	*	*Malin Head.*
a Blacksod Point ..	?	65	13, 16	53	18th	62·1	54·7	58·2	+ 0·8	6	0·92	23	- 4	*	*	*	*	*	*	*	*	*	
p Markree Castle ..	122	68	16th	53	18, 19	63·4	54·1	58·5	+ 2·3	6	2·67	68	+ 43	2·1	- 2·1	14	0	48	61·5	*	57·9	*	Markree Castle.
a Birr Castle	175	68	13th	53	16, 19	64·4	54·4	59·1	+ 1·5	6	1·10	28	+ 5	*2·6*	- *2·0*	*18*	*	*	*	*	*	*	*Birr Castle.*
b, East .. *p* Armagh	196	70	13th	51	15th	66·9	52·7	59·4	+ 2·6	6	1·72	44	+ 22	3·4	- 0·8	23	0	46	63·0	+1·4	59·2	+0·7	Armagh.
a Donaghadee ..	101	67	13, 14	52	15, 19	62·3	54·0	57·9	+ 0·6	4	0·71	18	- 2	*	*	*	0	45	62·7	+1·2	59·5	+0·8	Trinity Coll.
10. IRELAND, S.														2·7	- 2·6	18	0	48	*	*	*	*	Phœnix Park.
p Dublin, City	47	71	13th	53	19th	65·7	56·0	60·6	+ 1·3	4	1·13	29	+ 10	*	*	*	0	49	*	*	*	*	Dublin City.
a, East .. *a* Kilkenny	212	71	13th	49	15th	67·0	53·6	59·9	+ 1·9	6	0·89	23	+ 2	*	*	*	*	*	*	*	*	*	
a Waterford	20	72	18th	54	17–19	67·9	55·7	61·4	+ 2·7	5	0·22	6	- 17	*	*	*	*	*	*	*	*	*	
a Seskin, Carrick-on-Suir	*541*	*70*	*19th*	*49*	*19th*	*66·0*	*53·0*	*59·1*	—	*4*	*0·53*	*13*	—	*4·9*	—	*34*	0	47	*	*	*	*	*Seskin.*
a Birr Castle	175	68	13th	53	16, 19	64·4	54·4	59·1	+ 1·5	6	1·10	28	+ 5	2·6	- 2·0	18	*	*	*	*	*	*	Birr Castle.
a Foynes	50	70	13th	51	19th	66·7	54·9	60·5	+ 2·1	6	1·20	31	+ 8	*	*	*	*	*	*	*	*	*	
a Cahir	199	72	13th	52	16th	67·7	54·4	60·7	+ 2·7	6	0·49	12	—	*	*	*	*	*	*	*	*	*	
b, West .. *a* Killarney	174	71	17th	53	17th	67·2	55·7	61·1	+ 2·8	6	3·31	84	+ 57	*	*	*	*	*	*	*	*	*	
a Valencia	30	66	13, 17	56	15, 16	64·7	57·3	60·8	+ 2·2	7	0·65	16	- 13	4·7	- 0·3	32	*	*	*	*	*	*	Valencia.
a Roche's Point	32	70	19th	53	16th	67·0	56·4	61·4	+ 2·6	4	0·36	9	- 14	5·5	—	38	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	68	13, 14, 15	55	17, 18	66·7	56·9	61·5	+ 0·8	5	0·84	21	+ 7	5·2	- 2·2	36	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	72	13th	57	18, 19	68·3	59·1	63·4	+ 0·8	2	0·24	6	- 8	6·4	- 1·5	45	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	71	13th	56	18th	69·1	58·3	63·4	+ 1·7	3	0·23	6	- 9	7·2	- 0·7	50	0	54	65·9	+0·8	64·0	+1·8	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, August 19th, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Height. Above Ground.	Height. Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Gales, force 8 or more. Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	High Winds, forces 6 and 7. Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.	Date and Hour, G.M.T.	Highest Gust with Date and Time, G.M.T.
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	m/s.		m/s. d. h. m.
1. SCOTLAND, E. Dyce	305	75	‡15**	—	—	—	—	—	103	65	0	— 5	13th 13h.	9 13th 12 . 53
Aberdeen*	153	105 {37 52} †		—	—	—	—	7	125	36	0	NW. by W. 6	18th 9h.	10 13th 8 . 18
Edinburgh	485	39	31	—	—	—	—	14	134	20	0	S. 8	13th 19h.	13 13th 18 . 35
6. SCOTLAND, W. Eskdalemuir	850	50	22	—	—	13th	1	47	72	48	0	SSW. 11	13th 12h.	16 13th 12 . 24
Paisley	188	81	52	—	—	—	—	4	106	58	0	E. by N. 6	16th 14h.	13 13th 22 . 20
2. ENGLAND, N.E. Alnwick Castle	340	70	17	—	—	—	—	—	63	105	0	SE. by E. 5	15th 14h.	9 13th 16 . 33
South Shields	72	61	12	—	—	—	—	13	124	31	0	N. by E. 7	17th 14h.	11 13th 11 . 56
Spurn Head	66	40	‡	—	—	—	—	23	67	9	69	NW. 9	19th 6h.	11 15th 6 . 45
3. ENGLAND, E. Gorleston	52	42	‡	—	—	—	—	34	97	13	24	— 11	16th 15h.	15 16th 12 . 41
Shoeburyness	103	90	‡	—	—	14th	4	80	69	6	9	SW. by S. 12	14th 8h.	15 14th 7 . 47
4. MIDLAND COUNTIES. Benson	270	84	‡	—	—	—	—	45	118	5	0	SSW. 9	13th 12h.	15 13th 16 . 0
5. ENGLAND, S.E. Dover	271	40	‡	—	—	13 to 15	5	85	50	28	0	— 11	14th 12h.	17 15th 12 . 15
Warlingham	642	33	‡	—	—	—	—	22	102	44	0	— 7	13th 16h.	14 15th 10 . 28
Brighton	261	53	6	—	—	—	—	20	100	8	0	— 9	14th 8h.	14 14th 7 . 32
Kew Observatory ..	82	65 {6 22} †		—	—	—	—	17	115	30	6	SW. by S. 8	13th 12h.	14 15th 15 . 14
South Kensington ..	123	92	30	—	—	—	—	1	105	62	0	SW. 6	13th 14h.	11 13th 14 . 52
7. ENGLAND, N.W. Carnforth	246	56	23	—	—	—	—	—	56	112	0	WSW. 5	19th 16h.	10 13th 11 . 10
Southport	80	62	48	—	—	—	—	73	84	11	0	WSW. 10	14th 19h.	15 14th 18 . 25
Holyhead*	60	40	‡	—	—	13th	1	116	51	0	0	S. by W. 11	13th 18h.	15 13th 14 . 0
8. ENGLAND, S.W. Pendennis Castle§ ..	256	65	24	—	—	13, 14	33	54	73	8	0	SW. 14	13th 9h.	19 14th 1 . 55
Plymouth	185	88	2	—	—	—	—	58	82	28	0	— 10	14th 3h.	16 14th 3 . 33
Lyme Regis	556	61	‡	—	—	—	—	50	106	12	0	— 10	14th 4h.	17 14th 4 . 0
10. IRELAND, S. Quilty	100	40	‡	—	—	13 to 15	17	79	67	5	0	— 13	14th 20h.	19 14th 17 . 26
Weaver Pt.	160	30	‡	—	—	13th	4	78	82	6	0	— 12	13th 15h.	18 13th 12 . 0
11. ENGLISH CHANNEL. Scilly*	150	{32 19}	‡	—	—	14th	1	85	55	27	0	WNW. 11	14th 20h.	17 14th 17 . 40

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.
† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

THIRTY-THIRD WEEK—August 13th to August 19th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.									Rainfall.				Sunshine.			Pressure Mean for the Week at M.S.L
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	71	46	88·9	84·1	86·4	+ 0·7	99	+ 10	0	0	6	+ 1	0·67	17	− 6	1·6	−2·3	10	1006
Eastern.																			
1. SCOTLAND, EAST ...	75	46	89·9	84·6	87·1	+ 0·8	108	+ 10	0	0	6	+ 2	1·06	27	+ 8	1·4	−3·5	9	1005
2. ENGLAND, N.E.	77	49	92·0	85·7	88·7	+ 1·3	127	+ 15	0	0	6	+ 2	1·37	35	+ 20	2·7	−2·6	18	1005
3. ENGLAND, EAST ...	82	50	93·7	86·3	89·8	+ 1·2	141	+ 15	0	0	6	+ 3	1·13	29	+ 15	3·8	−2·3	26	1007
4. MIDLAND COUNTIES ...	77	48	92·9	85·8	89·2	+ 1·1	134	+ 15	0	0	6	+ 2	1·23	31	+ 16	3·1	−2·4	22	1006
5. ENGLAND, S.E.	76	48	93·2	86·9	89·8	+ 0·6	142	+ 6	0	0	5	+ 2	0·84	21	+ 7	4·7	−1·8	33	1007
Western.																			
6. SCOTLAND, WEST ...	75	48	91·9	85·0	88·3	+ 1·6	123	+ 20	0	0	6	+ 1	1·36	35	+ 9	4·2	−0·9	28	1005
7. ENGLAND, N.W. ...	74	46	91·2	85·7	88·3	+ 0·7	123	+ 8	0	0	6	+ 2	1·61	41	+ 21	3·0	−2·1	21	1005
8. ENGLAND, S.W.	73	50	92·2	86·3	89·1	+ 0·9	133	+ 11	0	0	4	0	1·20	31	+ 12	4·6	−1·5	32	1008
9. IRELAND, NORTH ...	70	51	90·4	85·3	87·7	+ 0·8	115	+ 10	0	0	6	+ 1	1·44	37	+ 14	2·8	−1·6	19	1005
10. IRELAND, SOUTH ...	72	49	92·2	86·0	88·9	+ 1·2	130	+ 15	0	0	6	+ 2	1·04	26	+ 1	3·9	−1·3	27	1008
11. ENGLISH CHANNEL ...	72	55	93·0	87·5	90·1	+ 0·6	146	+ 10	0	0	3	− 1	0·44	11	− 4	6·3	−1·7	44	1010

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 11 Weeks, June 4th to August 19th, 1916.

0. SCOTLAND, NORTH ...	81	35	88·4	82·3	85·2	− 0·1	915	− 22	0	− 2	44	− 3	6·51	166	− 50	3·2	−1·2	19	1014
Eastern.																			
1. SCOTLAND, EAST ...	82	30	89·9	81·9	85·6	− 0·5	984	− 70	2	+ 1	42	+ 2	8·81	223	+ 48	4·0	−1·4	24	1014
2. ENGLAND, N.E.	84	32	90·8	82·9	86·6	− 0·5	1112	− 74	0	0	37	+ 2	5·57	141	− 5	4·7	−1·3	29	1015
3. ENGLAND, EAST ...	83	36	91·6	83·4	87·3	− 0·8	1204	−128	0	0	38	+ 5	4·85	124	− 13	5·0	−1·7	31	1016
4. MIDLAND COUNTIES ...	87	34	92·3	82·9	87·3	− 0·6	1213	− 82	0	0	33	− 1	4·70	120	− 27	4·9	−1·1	31	1016
5. ENGLAND, S.E.	86	35	92·2	83·7	87·6	− 1·1	1258	−141	0	0	30	− 1	4·13	105	− 27	6·0	−0·9	38	1016
Western.																			
6. SCOTLAND, WEST ...	83	32	90·9	82·9	86·6	0·0	1121	+ 4	0	0	38	− 4	6·58	169	− 54	5·6	−0·2	34	1014
7. ENGLAND, N.W. ...	83	37	90·7	83·7	87·0	− 0·4	1169	− 58	0	0	32	− 6	5·57	141	− 41	5·6	−0·4	34	1016
8. ENGLAND, S.W. ...	84	35	91·6	83·7	87·4	− 0·5	1225	− 70	0	0	29	− 8	5·27	136	− 38	6·6	+0·1	42	1017
9. IRELAND, NORTH ...	81	35	90·0	83·2	86·4	− 0·3	1087	− 42	0	0	39	− 8	5·59	145	− 59	4·8	−0·1	29	1016
10. IRELAND, SOUTH ...	85	35	91·9	84·0	87·7	+ 0·1	1268	+ 19	0	0	40	0	5·83	147	− 51	6·0	+0·5	38	1017
11. ENGLISH CHANNEL ...	80	40	91·6	85·1	88·1	− 0·6	1327	− 73	0	0	25	−12	2·43	62	− 73	7·7	−0·3	49	1018

THE YEAR.—Aggregates, &c., for the Period of 33 Weeks, January 2nd to August 19th, 1916.

0. SCOTLAND, NORTH ...	81	20	83·6	77·8	80·6	+ 0·1	1334	− 51	454	−103	159	+ 8	32·81	832	+ 87	2·9	−0·7	22	1010
Eastern.																			
1. SCOTLAND, EAST ...	82	7	84·3	77·3	80·6	− 0·2	1451	−134	585	− 35	143	+19	25·43	647	+187	3·5	−0·8	26	1010
2. ENGLAND, N.E.	84	20	85·5	78·5	81·8	+ 0·3	1775	+ 37	379	− 96	124	+12	16·77	426	+ 63	3·9	−0·7	29	1012
3. ENGLAND EAST ...	83	24	86·3	78·9	82·4	+ 0·3	1988	− 35	353	−168	123	+15	16·71	423	+ 75	4·2	−0·8	32	1013
4. MIDLAND COUNTIES ...	87	21	86·5	78·4	82·3	+ 0·2	1973	− 41	405	−128	119	+11	17·52	447	+ 54	3·9	−0·6	29	1013
5. ENGLAND, S.E.	86	15	86·8	79·3	82·9	+ 0·1	2131	− 35	294	− 87	117	+15	16·97	430	+ 55	4·7	−0·3	36	1014
Western.																			
6. SCOTLAND, WEST ...	83	17	85·1	78·5	81·7	+ 0·1	1693	− 16	365	− 60	142	+11	26·11	667	− 8	4·2	−0·2	32	1012
7. ENGLAND N.W.	83	8	85·5	79·2	82·2	+ 0·1	1844	− 7	310	− 76	126	+ 7	20·72	527	+ 34	4·1	−0·4	31	1013
8. ENGLAND, S.W.	84	17	86·4	79·5	82·7	0·0	2004	− 56	279	− 22	124	+ 7	22·03	566	+ 33	4·8	−0·1	37	1014
9. IRELAND NORTH ...	81	18	85·1	78·7	81·8	− 0·2	1696	− 93	334	− 11	150	+ 8	23·30	597	+ 36	3·8	−0·3	29	1012
10. IRELAND, SOUTH ...	85	20	86·4	79·5	82·8	− 0·1	2041	− 27	244	− 15	156	+30	22·93	579	− 13	4·5	0·0	34	1014
11. ENGLISH CHANNEL ...	80	30	86·7	81·3	83·8	− 0·1	2300	− 19	85	− 24	122	− 2	16·90	427	− 11	5·6	−0·4	43	1015
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., August 24th, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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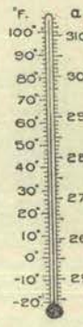
THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 34. SUNDAY, AUGUST 20TH, TO SATURDAY, AUGUST 26TH, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE THIRTY-FOURTH WEEK OF 1916.

For the first three days of the week the weather was fair or fine over the whole country, but on Wednesday conditions became less settled and for the remainder of the period the disturbed state which had prevailed during the preceding week was again reverted to. Heavy falls of rain occurred in Scotland and the north of England on Friday and Saturday. On the former day 45 mm. fell at Glasgow, 39 at Crathes, 38 at Rothesay, 36 at Eskdalemuir, 35 at Aberdeen, 34 at Leith and 32 at Dumfries and Douglas. On Saturday a further 28 mm. fell at Aberdeen, while at Alnwick 32 mm. were measured on this day. The heaviest daily fall of the week was, however, an isolated one of 54 mm. on Tuesday at Killarney. Thunderstorms occurred at a few stations on the 20th and again much more generally on the 26th. Temperature remained very uniform throughout the week, being somewhat above the normal in all districts except Scotland North and East. The highest maximum recorded was at Killarney (298a.) while nearly all other stations except those in Scotland North and East reached some value between 294a. and 297a. The heavy falls of rain towards the end of the week caused the normal to be exceeded by 27 mm. in Scotland East and by 19 mm. in Scotland West. In contrast to these figures there was a decided deficiency in Scotland North. Sunshine was scanty in the east of the country, but more moderate in the west. Aurora was observed from Stornoway on the night of the 22nd and again from Carrick-on-Suir, Donaghadee and Eskdalemuir on the night of the 26th. Sea temperature was very variable, 2·5a. above the normal at Cleggan in south-west Ireland and 1·3a. below at Wick.



WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.
		m/s		m/s		m/s		m/s		m/s		m/s		m/s		m/s
South	2	1·0	1	1·5	5	2·3	5	2·0	6	4·0	4	4·6	6	3·3	5	3·9
North	5	2·9	6	1·3	2	2·0	2	1·2	1	1·3	1	1·5	1	0·7	1	0·9
West	2	2·5	3	3·6	5	3·1	6	2·0	4	2·9	5	3·9	3	3·4	3	1·6
East	5	2·9	4	1·3	1	1·1	1	1·5	2	1·7	2	2·4	4	2·2	4	2·0
Calm	0	—	0	—	0	—	0	—	0	—	1	—	0	—	1	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c is printed on a separate sheet. *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Moderate	Moderate	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual
	Rainfall ...	Light	Very heavy	Heavy	Moderate	Moderate	Moderate	Heavy	Moderate	Heavy	Moderate	Heavy	Moderate
	Sunshine ...	Moderate	Very scanty	Scanty	Scanty	Scanty	Moderate	Scanty	Moderate	Moderate	Scanty	Moderate	Moderate

II.—THE SUMMER SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SUMMER. 12 weeks from June 4th, 1916.	Warmth ...	5, 2, 5	5, 1, 6	5, 1, 6	4, 0, 8	5, 1, 6	4, 1, 7	6, 0, 6	5, 2, 5	5, 1, 6	6, 1, 5	6, 1, 5	5, 1, 6
	Rainfall ...	2, 4, 6	6, 1, 5	5, 4, 3	3, 6, 3	3, 5, 4	3, 5, 4	5, 2, 5	3, 4, 5	5, 1, 6	1, 6, 5	4, 3, 5	1, 5, 6
	Sunshine ...	1, 6, 5	4, 0, 8	3, 0, 9	1, 3, 8	3, 0, 9	1, 5, 6	4, 3, 5	4, 1, 7	3, 4, 5	4, 2, 6	5, 2, 5	2, 6, 4

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.) and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(9017—19.) Wt. 79a—736. 450. 9/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average.	
0. SCOTLAND, N.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
p Baltasound	*31*	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	*Baltasound.*
a Islands .. *a Lerwick*	54	58	25th	45	24th	54·4	47·6	50·8	- 1·3	2	0·08	2	—	3·4	- 0·4	23	•	•	•	•	•	•	Deerness.
a Stornoway	51	65	23rd	47	23rd	60·4	50·7	55·3	+ 1·5	2	0·05	1	- 23	4·8	+ 0·6	33	•	•	•	•	•	•	Stornoway.
a Castlebay, Barra Isd.	*37*	*63*	*21, 24*	*52*	*20th*	*?61·0*	*?54·3*	*?57·5*	*+ 3·1*	*?4*	*?0·28*	*?7*	—	*?4·6*	—	*32*	•	•	•	•	•	•	*Castlebay.*
a Wick	81	59	20th	43	20th	54·3	47·0	50·4	- 3·6	2	0·12	3	- 13	•	•	•	•	•	•	•	•	•	
p Strathpeffer	200	66	21st	44	23rd	60·4	48·4	54·0	- 0·8	2	1·00	25	+ 10	2·6	- 1·3	18	•	•	•	•	•	•	
b. Mainland. *p Glencarron*	500	67	22, 23	41	22nd	61·1	47·9	54·1	+ 0·8	4	1·08	27	- 16	•	•	•	•	•	•	•	•	•	Strathpeffer.
p Fort Augustus	68	66	20th	44	23rd	60·7	50·6	55·4	+ 0·1	2	1·08	28	+ 7	3·1	+ 0·2	21	•	•	•	•	•	•	
p Fort William	171	72	22nd	43	22nd	65·0	50·4	57·3	+ 1·8	4	0·98	25	- 12	•	•	•	•	•	•	•	•	•	Fort Augustus.
1. SCOTLAND, E.																							
p Gordon Castle	101	65	20, 23	39	23rd	59·3	47·3	52·9	- 2·7	2	1·19	30	+ 11	2·1	—	14	0	32	58·4	+1·2	56·7	+1·0	Crathes.
a Nairn	82	63	20th	39	23rd	57·7	48·0	52·6	- 2·8	6	1·24	32	+ 18	*2·8*	—	*19*	•	•	•	•	•	•	*Gordon Castle.*
a Aberdeen	46	63	23rd	48	20, 23	58·0	50·0	53·8	- 1·9	4	2·54	64	+ 48	2·1	—	14	•	•	•	•	•	•	Nairn.
a Balmoral	930	68	23rd	39	23rd	59·7	45·7	52·3	- 0·2	5	1·59	40	+ 19	1·5	- 3·3	10	•	•	•	•	54·1	- 0·1	Aberdeen.
p Crieff	432	69	21, 22	42	22nd	64·7	47·7	55·7	- 0·8	3	1·66	42	+ 18	•	•	•	0	38	•	•	•	•	Balmoral.
a Leith	18	66	21st	48	22nd	62·1	52·6	57·1	- 0·6	4	2·64	67	+ 51	2·8	•	19	•	•	•	•	•	•	Balruddery.
a West Linton	769	67	22, 23	40	23rd	63·9	47·6	55·3	+ 2·3	3	1·64	42	—	•	•	•	•	•	•	•	•	•	
p Marchmont	498	70	24th	44	23rd	64·6	50·6	57·2	+ 2·4	4	1·92	49	+ 30	*2·9*	—	*20*	0	34	•	•	•	•	*West Linton.*
a Edinburgh	*441*	*66*	*21st*	*47*	*22nd*	*62·4*	*52·1*	*56·9*	—	*4*	*2·17*	*55*	—	2·9	- 1·8	20	0	38	•	•	•	•	Marchmont.
6. a. SCOTLAND, W.														3·2	—	22	0	38	•	•	•	•	Edinburgh.
a Poltalloch	132	69	22nd	—	—	65·9	—	—	—	2	0·92	23	- 5	•	•	•	•	•	•	•	•	•	
p Glasgow Observatory	180	69	22nd	49	22nd	64·1	53·0	58·2	+ 2·4	3	2·69	68	+ 45	3·3	- 0·8	23	0	43	•	•	•	•	
p Rothesay	170	66	21st	48	20th	62·9	51·1	56·7	+ 0·5	3	2·29	58	+ 30	*4·0*	—	*28*	0	44	60·0	•	57·4	+1·4	Glasgow.
a Kilmarnock	90	74	24th	43	22nd	70·7	52·3	61·0	+ 5·1	3	1·70	43	—	*4·0*	—	*28*	•	•	59·7	•	56·7	•	*Rothesay.*
a Colmonell	170	71	23rd	40	22nd	66·9	52·1	59·1	+ 2·3	3	1·28	33	+ 8	•	•	•	0	42	•	•	•	•	*Kilmarnock.*
a Dumfries	160	69	23rd	52	21–24	66·1	54·0	59·7	+ 2·3	4	1·99	51	+ 29	*4·0*	—	*28*	0	43	60·9	•	60·1	•	
Eskdalemuir	*799*	*68*	*23rd*	*43*	*23rd*	*64·1*	*49·9*	*56·6*	—	*4*	*2·44*	*62*	—	*3·0*	—	*21*	•	•	•	•	•	•	*Dumfries.*
p Cally, Gatehouse	120	68	20–22	41	22nd	66·0	51·7	58·4	+ 2·9	5	1·32	34	+ 7	•	•	•	•	•	•	•	•	•	*Eskdalemuir.*
b. I. OF MAN. *p Douglas*	277	65	26th	52	22nd	62·4	54·7	58·3	+ 2·0	3	2·48	63	+ 39	4·1	- 1·4	29	0	49	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	69	24th	43	23rd	63·9	51·3	57·2	+ 1·1	5	2·46	63	+ 46	2·9	—	20	0	37	57·3	+1·0	56·4	+0·7	Cockle Park.
a Tynemouth	71	66	20th	52	21, 23	62·4	53·7	57·8	+ 0·8	5	1·02	26	+ 11	•	•	•	•	•	•	•	•	•	Tynemouth
p Durham	336	71	23rd	49	23rd	66·7	52·0	58·9	+ 1·8	4	1·07	27	+ 13	3·9	- 0·8	27	0	45	•	•	•	•	Durham.
a North .. *p Rounton*	249	72	23rd	48	23rd	68·0	53·0	60·1	+ 3·6	3	0·40	10	- 5	•	•	•	0	41	59·9	•	•	•	Rounton.
a West Witton	*605*	*71*	*23, 24*	*50*	*22, 23*	*68·6*	*53·1*	*60·4*	—	*4*	*0·61*	*15*	—	•	•	•	0	46	59·7	•	55·7	•	*West Witton.*
p Scarborough†	100	74	24th	51	23rd	67·0	55·1	60·7	+ 2·9	3	0·72	18	+ 3	4·2	—	29	•	•	•	•	55·0	•	Scarborough.
p York	56	72	23, 25	50	23rd	69·4	54·1	61·3	+ 3·1	6	0·69	18	+ 4	3·8	- 0·9	27	•	•	61·0	+1·6	59·0	+1·4	York.
a Spurn Head	26	73	23rd	54	21–23	68·1	55·6	61·5	+ 2·6	4	0·43	11	0	3·7	—	*26*	•	•	•	•	•	•	*Spurn Head.*
b. South .. *a Lincoln*	58	73	24th	49	21st	69·7	53·6	61·2	+ 2·1	4	0·83	21	+ 8	•	•	•	•	•	61·6	+1·2	60·0	+1·9	Lincoln.
a Fulbeck	180	73	24th	47	21, 22	70·3	52·0	60·6	+ 1·6	4	0·35	9	- 5	4·5	—	31	•	•	61·9	-0·7	58·8	-0·6	Rauceby.
3. ENGLAND, E.														4·4	—	31	•	•	•	•	•	•	Skegness.
p Cromer	196	72	23, 25	50	23rd	67·6	54·4	60·6	+ 2·1	4	0·21	5	—	4·1	—	29	•	•	•	•	•	•	Cromer.
p Little Massingham	280	75	23rd	49	20, 23	69·1	52·3	60·2	+ 1·3	5	0·15	4	- 12	3·6	- 2·1	26	•	•	•	•	•	•	Lit. Massingham.
a. North .. *a Yarmouth*	13	72	24th	50	20, 21	68·6	53·9	60·8	+ 1·4	4	0·26	7	- 6	4·6	—	33	•	•	61·0	-3·1	58·3	-4·0	Yarmouth.
a Norwich	93	73	25th	49	23rd	69·1	53·9	61·0	+ 1·4	5	0·45	11	—	*4·0*	—	*28*	0	44	62·7	•	•	•	*Norwich.*
a Geldeston	37	72	25th	49	21, 23, 24	69·3	53·4	60·9	+ 1·9	6	0·41	10	- 3	3·9	- 2·1	28	•	•	•	•	•	•	Geldeston.
p Cambridge	41	75	24th	46	22nd	71·3	53·6	61·9	+ 1·9	4	0·23	6	- 7	4·5	- 1·4	32	0	41	61·7	-0·4	60·0	-0·5	Cambridge.
b. South .. *a Clacton-on-Sea*	54	74	24th	50	20, 21	68·4	55·7	61·7	+ 1·0	4	0·43	11	—	4·3	—	31	0	47	61·7	+0·2	60·6	0·0	Clacton.
a Rothamsted	424	69	23, 24, 26	43	22nd	67·9	53·0	60·0	+ 1·4	4	0·25	6	- 8	4·8	- 1·1	34	0	37	60·0	•	•	•	Rothamsted.
p Tottenham	51	72	23, 24, 26	49	22nd	69·9	56·4	62·8	+ 2·6	4	0·50	13	—	5·1	—	36	0	46	•	•	61·9	-0·4	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. *a Harrogate*	479	70	24th	47	23rd	66·4	52·4	59·0	+ 2·5	5	0·68	17	+ 1	4·1	—	29	0	44	58·9	+2·1	57·9	+1·8	Harrogate.
p Buxton	*987*	*69*	*24th*	*44*	*22nd*	*65·1*	*52·0*	*58·2*	*+ 2·9*	*4*	*0·56*	*14*	*- 11*	*4·2*	—	*29*	0	40	58·9	+0·4	57·4	+1·9	*Buxton.*
a Bawtry	65	73	24th	49	22, 23	69·3	53·3	60·8	+ 2·4	4	0·37	9	- 4	4·3	—	30	0	41	59·6	+0·8	56·6	+0·8	Sheffield.
a Nottingham	82	73	24th	45	22nd	70·6	52·0	60·7	+ 2·1	3	0·25	6	- 8	3·7	- 0·9	26	0	40	59·8	•	57·6	•	Worksop.
b. East .. *p Birmingham, Edgbas.*	535	70	26th	51	21, 22	68·1	54·9	61·1	+ 2·9	5	0·42	11	- 4	5·3	—	38	0	41	60·6	+1·0	59·2	-0·2	Nottingham.
a Raunds	203	74	23, 24	43	22nd	71·3	51·6	60·9	+ 2·1	5	0·47	12	—	4·2	—	30	0	36	57·1	+0·6	54·4	-0·2	Birmingham.
p Oxford	208	72	22nd	48	21st	69·7	55·9	62·4	+ 2·8	4	0·60	15	+ 2	*4·0*	—	*28*	0	33	62·5	•	58·0	•	*Raunds.*
a Cheadle	646	72	24th	47	22nd	67·4	52·9	59·7	+ 3·2	3	0·41	10	- 9	5·7	- 0·1	40	0	43	•	•	•	•	Oxford
c. West .. *p Shrewsbury*	191	73	22nd	48	21st	68·9	54·1	61·1	+ 2·7	4	0·46	12	—	•	•	•	0	46	•	•	•	•	Cheadle.
a Hereford§	291	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	0	40	•	•	•	•	Shrewsbury.
a Bath	66	72	22nd	45	21st	69·3	54·3	61·4	+ 2·1	4	0·87	22	+ 7	*4·1*	—	*29*	0	46	63·1	•	61·8	•	*Malvern.§*
5. ENGLAND, S.E.														3·6	—	26	•	•	63·3	+0·1	61·7	0·0	Bath.
a Marlborough	424	71	22nd	42	21st	67·4	52·0	59·2	+ 1·8	4	1·23	31	+ 16	6·6	—	47	0	46	63·7	-0·1	61·9	+0·5	Worthing.
a Margate	53	73	26th	54	20th	69·3	57 6	63·1	+ 1·9	3	0·12	3	- 8	4·2	- 1·4	30	0	37	61·8	•	57·9	•	Marlborough.
a Wisley, Surrey	150	74	22nd	47	22nd	70·6	54·4	62·0	+ 1·2	3	0·32	8	—	5·2	- 0·8	37	0	52	65·2	+3·0	64·1	+3·7	Margate.
p Salisbury (Wilton)	180	74	21st	45	21st	69·7	52·9	60·8	+ 0·8	3	0·87	22	+ 7	6·0	—	43	0	39	62·0	-0·1	59·4	-1·4	Wisley.
a Tunbridge Wells	354	72	24th	47	22nd	69·9	53·6	61·3	+ 2·1	4	1·09	28	+ 15	•	•	•	0	42	63·1	•	•	•	Salisbury.
a Dungeness	21	69	20, 21	48	21st	67·1	55·0	60·7	- 0·1	2	0·12	3	- 8	5·1	- 1·1	36	0	38	62·0	-1·2	60·1	•	Tunbridge Wells.
p Hastings	178	70	21st	51	21st	67·9	56·7	62·0	+ 1·3	3	0·29	7	- 7	•	•	•	•	•	•	•	•	•	
p Southampton	64	73	21st	49	21st	69·6	56·4	62·6	+ 1·2	4	0·56	14	- 1	6·0	- 0·7	43	0	45	63·8	•	61·5	•	Littlestone.
a Ventnor	59	71	22nd	51	20th	68·7	58·4	63·2	+ 1·5	2	0·10	3	- 10	5·7	- 0·8	41	0	40	•	•	•	•	Hastings.
LONDON. *p Kew Observatory*	18	71	23, 26	48	22nd	69·3	55·2	61·8	+ 1·8	5	0·67	17	+ 4	6·3	+ 0·1	45	•	•	•	•	•	•	Southampton.
a Westminster	*27*	*73*	*26th*	*?47*	*21st*	*?70·4*	*?55·4*	*?62·5*	*+ 1·9*	*4*	*1·37*	*35*	*+ 22*	4·9	- 1·0	35	0	39	61·3	-0·6	59·0	-0·2	Ventnor.
a Greenwich	*155*	*75*	*24th*	*48*	*22nd*	*72·1*	*54·9*	*63·0*	*+ 1·9*	*4*	*0·68*	*17*	*+ 5*	*4·6*	*- 0·6*	*33*	0	46	•	•	•	•	Kew Obs.
a Hampstead	*450*	*70*	*21, 23*	*47*	*21st*	*68·3*	*53·8*	*60·6*	—	*4*	*0·35*	*9*	—	*4·8*	*- 1·7*	*34*	0	39	•	•	•	•	*Westminster.*
a Camden Square	*110*	*75*	*23, 24*	*48*	*21, 22*	*72·0*	*54·9*	*62·9*	—	*4*	*0·54*	*14*	—	*5·0*	—	*35*	0	34	•	•	•	•	*Greenwich.*
7. a. ENGLAND, N.W.														*4·3*	—	*31*	0	46	•	•	•	•	*Hampstead.*
p Aspatria (Mealsgate)	487	68	23rd	48	21, 22	64·1	53·1	58·3	+ 1·8	3	1·00	25	0	4·2	—	29	•	•	•	•	•	•	*Camden Square.*
p Newton Rigg	559	70	22nd	45	22nd	66·7	51·6	58·7	+ 3·4	3	0·78	20	0	3·8	—	26	0	46	59·3	•	56·9	•	Hoylake.
p Stonyhurst	375	70	23rd	49	21, 22	66·1	54·6	60·0	+ 3·3	4	0·69	18	- 10	4·7	- 0·1	33	0	41	60·5	+1·7	57·3	+0·7	Aspatria.
p Blackpool	66	72	23rd	47	22nd	67·1	55·9	61·2	+ 3·2	3	0·32	8	- 13	4·8	- 0·0	34	0	42	•	•	•	•	Newton Rigg.
a Southport	37	71	23rd	48	22nd	66·6	55·9	60·9	+ 2·9	3	0·33	8	- 13	4·9	- 0·2	34	0	37	62·1	•	58·4	•	Stonyhurst.
a Liverpool (Bidston)	188	70	23rd	54	20th	66·1	56·1	60·8	+ 3·1	4	0·61	13	- 5	5·0	- 0·4	35	0	42	62·6	+0·6	61·2	+0·1	Blackpool.
a Hawarden Bridge	22	72	22nd	54	20th	69·1	56·7	62·5	+ 3·2	3	0·44	11	- 6	*4·4*	—	*31*	•	•	•	•	•	•	Southport.
p Manchester (Whit. Pk.)	125	71	24th	48	21, 22	67·9	54·6	60·9	+ 3·0	5	0·64	16	0	*3·0*	—	*21*	0	45	61·7	+1·6	62·0	+2·4	*Liverpool.*
b. NORTH WALES.														*3·2*	*- 0·8*	*22*	•	•	•	•	•	•	*Manchester (City)*
p Llandudno	71	68	25th	53	22nd	65·6	57·4	61·3	+ 2·2	3	0·58	15	- 2	4·8	- 0·4	34	•	•	•	•	•	•	" *(Whit. Park)*
a Holyhead	15	68	22nd	52	21st	65·0	55·3	59·9	+ 1·3	3	0·83	21	+ 3	*4·2*	—	*29*	•	•	•	•	•	•	Llandudno.
p Bettws-y-Coed	148	70	22nd	49	21st	67·0	54·0	60·1	+ 1·7	4	0·65	17	—	3·9	—	28	•	•	58·0	+0·6	55·0	-0·4	*Holyhead.*
														4·4	—	31	•	•	•	•	•	•	Bettws-y-Coed.
																							Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. in Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.		Deviation from Normal.	Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														4·1	—	29	•	•	•	•	•	•	Aberystwyth.
a Llangammarch Wells	550	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	Llangammarch.
a Pembroke	149	66	21, 26	54	22–24	64·1	55·9	59·8	+ 1·5	6	1·43	36	+ 19	6·1	0·0	43	•	•	•	•	•	•	Pembroke.
p Cardiff	202	72	22nd	50	21st	68·0	55·9	61·6	+ 1·9	4	1·42	36	+ 12	*5·4*	—	*38*	0	45	62·5	+0·7	60·0	+0·1	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	72	22nd	52	21st	68·9	57·4	62·8	+ 2·6	4	1·11	28	+ 8	*4·6*	•	*33*	0	49	•	•	•	•	*Clifton.*
a Shaftesbury	722	70	21, 22	49	21st	66·4	53·9	59·8	+ 1·6	4	0·80	20	+ 3	•	•	•	•	•	62·0	•	60·7	•	Shaftesbury.
a Arlington	613	70	22nd	48	21st	66·6	54·4	60·1	+ 2·8	4	1·18	30	+ 1	•	•	•	•	•	•	•	•	•	Arlington.
a Newquay	*190*	*72*	26th	*45*	*21st*	*66·3*	*54·3*	*59·9*	+ *0·3*	*4*	*0·67*	*17*	+ *4*	5·8	− 0·8	41	•	•	63·6	•	60·0	•	Newquay.
a Cullompton	202	74	22nd	45	21st	69·4	52·9	60·7	+ 1·9	5	1·31	33	+ 16	4·6	− 1·2	33	0	40	62·2	•	•	•	Cullompton.
a Portland Bill	19	68	22nd	57	21, 22	65·1	58·9	61·8	+ 1·1	3	0·35	9	—	*6·9*	—	*49*	•	•	•	•	•	•	*Weymouth.*
p Plymouth	116	71	21st	49	22nd	67·9	55·9	61·5	+ 1·4	5	1·34	34	+ 18	5·2	− 1·0	37	•	•	63·4	0·0	60·7	•	Plymouth.
a Falmouth	167	71	21st	51	22nd	68·9	55·4	61·8	+ 2·3	5	1·32	34	+ 15	6·4	− 0·3	46	0	41	64·4	•	62·8	•	Falmouth.
9. IRELAND, N.																							
a, West .. { *a* Malin Head	208	65	22, 26	53	20, 21, 23	63·0	54·4	58·4	+ 2·1	6	1·06	27	+ 7	*2·9*	•	*20*	•	•	•	•	•	•	*Malin Head.*
a Blacksod Point ..	?	65	21, 24–26	55	21, 22	64·0	55·9	59·7	+ 2·7	5	0·83	21	− 7	•	•	•	•	•	•	•	•	•	
p Markree Castle ..	122	70	21st	47	22nd	67·3	52·6	59·5	+ 3·7	6	1·05	27	+ 2	3·4	− 0·7	24	0	43	61·4	•	57·8	•	Markree Castle.
a Birr Castle	175	72	21st	46	21st	68·6	52·1	59·9	+ 2·8	5	1·46	37	+ 14	*4·0*	− *0·6*	*28*	•	•	•	•	•	•	*Birr Castle.*
b, East .. { *p* Armagh	196	70	22, 26	50	22nd	67·0	54·0	60·1	+ 3·8	5	0·44	11	− 11	3·3	− 0·8	23	0	44	62·0	+1·8	59·0	+0·7	Armagh.
a Donaghadee	101	67	26th	53	20th	62·7	54·3	58·3	+ 1·5	6	0·31	8	− 12	•	•	•	•	•	•	•	•	•	
														•	•	•	0	44	62·0	+1·6	59·1	+0·6	Trinity Coll.
10. IRELAND, S.														3·2	− 2·0	22	0	41	•	•	•	•	Phœnix Park.
a, East .. { *p* Dublin, City	47	70	25th	52	22nd	67·3	56·3	61·5	+ 2·7	5	1·06	27	+ 8	•	•	•	0	49	•	•	•	•	Dublin City.
a Kilkenny	212	73	21, 25	44	21st	69·7	53·3	61·0	+ 3·6	5	1·10	28	+ 7	•	•	•	•	•	•	•	•	•	
a Waterford	20	71	21st	49	21st	68·4	54·7	61·1	+ 3·0	3	0·74	19	− 3	•	•	•	•	•	•	•	•	•	
a Seskin, Carrick-on-Suir	*541*	*72*	*21st*	*47*	*22nd*	*68·0*	*52·7*	*59·9*	—	*5*	*0·98*	*25*	—	*4·6*	—	*33*	0	45	•	•	•	•	*Seskin.*
b, West .. { *a* Birr Castle	175	72	21st	46	21st	68·6	52·1	59·9	+ 2·8	5	1·46	37	+ 14	4·0	− 0·6	28	•	•	•	•	•	•	Birr Castle.
a Foynes	50	71	24th	50	21, 22	68·1	54·4	60·8	+ 2·9	5	1·04	26	+ 3	•	•	•	•	•	•	•	•	•	
a Cahir	199	73	21, 25	41	21st	69·7	52·0	60·3	+ 2·8	5	1·41	36	—	•	•	•	•	•	•	•	•	•	
a Killarney	174	77	21st	48	21st	71·0	54·9	62·5	+ 4·6	5	3·69	94	+ 67	•	•	•	•	•	•	•	•	•	
a Valencia	30	69	21st	49	21st	66·7	55·6	60·8	+ 2·6	5	2·01	51	+ 22	6·4	+ 1·5	45	•	•	•	•	•	•	Valencia.
a Roche's Point	32	68	25th	51	21st	65·9	55·6	60·4	+ 1·9	6	1·40	36	+ 13	5·7	—	41	•	•	•	•	•	•	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	69	24th	56	20–22	67·7	58·0	62·6	+ 2·2	5	1·14	29	+ 15	6·5	− 0·7	46	•	•	•	•	•	•	Scilly.
a Jersey, St. Aubins ..	25	73	22nd	52	20th	70·3	58·4	64·0	+ 1·6	4	0·47	12	− 3	7·0	− 0·6	50	•	•	•	•	•	•	St. Heliers.
a Guernsey (Villa Carey)	180	75	22nd	53	21st	70·7	57·3	63·6	+ 2·2	3	0·46	12	− 5	7·1	− 0·5	51	0	43	65·2	+1·0	63·9	+1·6	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, August 26th, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Above Ground.	Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Gales, force 8 or more. Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	High Winds, forces 6 and 7. Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.	Date and Hour, G.M.T.	Highest Gust with Date and Time, G.M.T.
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	m/s.		m/s. d. h m.
1. SCOTLAND, E.														
Dyce	305	75	‡15**	—	—	—	—	—	88	80	0	— 5	21st 10h.	13 21st 10 . 45
Aberdeen*	153	105	37 † / 52 †	—	—	—	—	12	115	41	0	NW. 8	21st 9h.	14 21st 8 . 48
Edinburgh	485	39	31	—	—	—	—	3	128	37	0	W. 6	20th 20h.	10 20th 14 . 42
6. SCOTLAND, W.														
Eskdalemuir	850	50	22	—	—	—	—	16	70	82	0	W. by N. 8	20th 15h.	15 20th 14 . 24
Paisley	188	81	52	—	—	—	—	6	99	63	0	NW. by N. 8	20th 14h.	15 20th 13 . 7
2. ENGLAND, N.E.														
Alnwick Castle	340	70	17	—	—	—	—	—	30	138	0	N. 4	21st 15h.	8 21th 12 . 30
South Shields	72	61	12	—	—	—	—	17	93	57	1	WNW. 9	26th 15h.	13 20th 12 . 35
Spurn Head	66	40	‡	—	—	—	—	32	109	3	24	— 8	21st 15h.	12 26th 17 . 1
3. ENGLAND, E.														
Gorleston	52	42	‡	—	—	—	—	35	123	10	0	— 8	24th 6h.	15 20th 14 . 6
Shoeburyness	103	90	‡	—	—	—	—	12	65	3	88	W. by S. 8	26th 13h.	18 26th 16 . 26
4. MIDLAND COUNTIES.														
Benson	270	84	‡	—	—	—	—	33	100	35	0	WSW. 8	26th 11h.	15 26th 11 . 18
5. ENGLAND, S.E.														
Dover	271	40	‡	—	—	26th	5	43	64	31	25	— 13	26th 13h.	19 26th 12 . 57
Warlingham	642	33	‡	—	—	—	—	5	124	39	0	— 7	26th 16h.	15 26th 15 . 50
Brighton	261	53	6	—	—	—	—	33	111	24	0	— 8	26th 13h.	15 26th 4 . 53
Kew Observatory ..	82	65	6 † / 22 †	—	—	—	—	6	103	59	0	WSW. 7	26th 12h.	13 26th 12 . 8
South Kensington ..	123	92	30	—	—	—	—	1	103	64	0	SW. by W. 6	26th 12h.	10 26th 12 . 13
7. ENGLAND, N.W.														
Carnforth	246	56	23	—	—	—	—	4	51	113	0	W. by S. 7	20th 15h.	12 20th 14 . 40
Southport	80	62	48	—	—	20, 26	8	74	85	1	0	WNW. 12	20th 15h.	15 26th 23 . 37
Holyhead*	60	40	‡	—	—	—	—	100	61	7	0	W. 10	20th 6h.	13 24th 18 . 55
8. ENGLAND, S.W.														
Pendennis Castle§ ..	256	65	24	—	—	24 to 26	22	60	60	24	2	S. 17	25th 8h.	24 25th 7 . 52
Plymouth	185	88	2	—	—	25th	3	43	79	43	0	— 13	25th 11h.	18 25th 11 . 17
Lyme Regis	556	61	‡	—	—	—	—	31	66	71	0	— 10	25th 12h.	14 25th 12 . 20
10. IRELAND, S.														
Quilty	100	40	‡	—	—	—	—	53	62	12	11	— 10	22nd 12h.	16 22nd 11 . 55
Weaver Pt.	160	30	‡	—	—	23rd	4	64	83	17	0	— 13	23rd 12h.	20 23rd 12 . 8
11. ENGLISH CHANNEL.														
Scilly*	150	32 / 19	‡	—	—	—	—	34	99	34	1	S. 10	25th 7h.	15 25th 3 . 37

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

‡ Standard mounting.

† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof

§ Direction from the Robinson Anemometer at Falmouth Observatory.

** Above tops of trees.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

THIRTY-FOURTH WEEK—August 20th to August 26th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Pressure Mean for the Week at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	72	41	88·3	82·4	85·2	− 0·2	83	− 4	0	0	3	− 1	0·63	16	− 9	3·5	−0·3	24	1009
Eastern.																			
1. SCOTLAND, EAST ...	70	39	89·3	82·3	85·6	− 0·5	88	− 7	0	0	4	0	1·80	46	+ 27	2·4	−2·4	17	1008
2. ENGLAND, N.E.	74	43	92·6	84·9	88·5	+ 1·3	125	+ 16	0	0	4	0	0·89	23	+ 7	4·0	−1·1	28	1009
3. ENGLAND, EAST ...	75	43	93·6	85·3	89·2	+ 1·0	134	+ 12	0	0	4	0	0·32	8	− 6	4·4	−1·5	31	1010
4. MIDLAND COUNTIES ...	74	43	93·6	84·9	89·0	+ 1·3	132	+ 17	0	0	4	+ 1	0·50	13	− 4	4·4	−0·9	31	1010
5. ENGLAND, S.E.	74	42	93·6	85·9	89·5	+ 0·6	138	+ 8	0	0	3	− 1	0·54	14	− 2	5·6	−0·7	40	1011
Western.																			
6. SCOTLAND, WEST ...	74	40	91·7	84·5	87·9	+ 1·4	118	+ 18	0	0	3	− 1	1·83	47	+ 19	3·7	−1·1	27	1008
7. ENGLAND, N.W.	72	45	92·2	85·7	88·8	+ 1·4	129	+ 18	0	0	4	0	0·65	16	− 7	4·5	−0·4	31	1009
8. ENGLAND, S.W.	74	45	92·6	86·1	89·2	+ 1·3	134	+ 15	0	0	4	0	1·14	29	+ 7	5·4	−0·5	38	1011
9. IRELAND, NORTH ...	72	46	91·6	85·2	88·2	+ 1·6	121	+ 19	0	0	6	+ 1	0·86	22	− 2	3·4	−0·9	23	1007
10. IRELAND, SOUTH ...	77	41	93·2	85·4	89·1	+ 1·7	132	+ 20	0	0	5	0	1·55	39	+ 14	4·8	0·0	34	1007
11. ENGLISH CHANNEL ...	75	52	93·9	87·4	90·4	+ 1·1	150	+ 14	0	0	4	0	0·69	18	+ 1	6·9	−0·3	49	1012

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 12 Weeks, June 4th to August 26th, 1916.

0. SCOTLAND, NORTH ...	81	35	88·4	82·3	85·2	− 0·1	998	− 26	0	− 2	47	− 4	7·10	180	− 61	3·3	−1·0	19	1014
Eastern.																			
1. SCOTLAND, EAST ...	82	30	89·8	81·9	85·6	− 0·5	1072	− 77	2	+ 1	46	+ 2	10·61	269	+ 75	3·8	−1·6	23	1013
2. ENGLAND, N.E.	84	32	90·9	83·1	86·8	− 0·3	1237	− 58	0	0	41	+ 2	6·54	167	+ 5	4·7	−1·2	29	1014
3. ENGLAND, EAST ...	83	36	91·8	83·6	87·4	− 0·8	1338	−116	0	0	42	+ 5	5·20	133	− 18	4·9	−1·7	31	1015
4. MIDLAND COUNTIES ...	87	34	92·5	83·0	87·4	− 0·5	1345	− 65	0	0	37	0	5·20	133	− 31	4·9	−1·0	31	1015
5. ENGLAND, S.E.	86	35	92·3	83·8	87·8	− 0·9	1396	−133	0	0	33	− 2	4·70	120	− 28	6·0	−0·8	38	1016
Western.																			
6. SCOTLAND, WEST ...	83	32	91·0	83·0	86·8	+ 0·2	1239	+ 22	0	0	41	− 5	8·41	216	− 35	5·5	−0·2	34	1014
7. ENGLAND, N.W.	83	37	90·8	83·9	87·1	− 0·3	1298	− 40	0	0	36	− 6	6·22	157	− 48	5·5	−0·4	34	1015
8. ENGLAND, S.W.	84	35	91·7	83·9	87·5	− 0·4	1359	− 55	0	0	33	− 8	6·49	166	− 30	6·5	0·0	42	1016
9. IRELAND, NORTH ...	81	35	90·1	83·4	86·5	− 0·2	1208	− 23	0	0	45	− 7	6·45	167	− 61	4·7	−0·1	29	1015
10. IRELAND, SOUTH ...	85	35	92·0	84·2	87·8	+ 0·3	1400	+ 39	0	0	45	0	7·38	186	− 37	5·9	+0·5	37	1016
11. ENGLISH CHANNEL ...	80	40	91·8	85·3	88·3	− 0·4	1477	− 59	0	0	29	−12	3·12	80	− 72	7·6	−0·3	50	1017

THE YEAR.—Aggregates, &c., for the Period of 34 Weeks, January 2nd to August 26th, 1916.

0. SCOTLAND, NORTH ...	81	20	83·8	78·0	80·7	0·0	1417	− 55	454	−103	162	+ 7	33·40	846	+ 76	3·0	−0·6	22	1010
Eastern.																			
1. SCOTLAND, EAST ...	82	7	84·5	77·4	80·8	− 0·2	1539	−141	585	− 35	147	+19	27·23	693	+214	3·5	−0·8	26	1010
2. ENGLAND, N.E.	84	20	85·7	78·7	82·0	+ 0·3	1900	+ 53	379	− 96	128	+12	17·74	452	+ 73	3·9	−0·7	29	1012
3. ENGLAND EAST ...	83	24	86·5	79·1	82·6	+ 0·3	2122	− 23	353	−168	127	+15	17·06	432	+ 70	4·2	−0·8	32	1013
4. MIDLAND COUNTIES ...	87	21	86·7	78·6	82·5	+ 0·3	2105	− 24	405	−128	123	+12	18·02	460	+ 50	3·9	−0·6	29	1013
5. ENGLAND, S.E.	86	15	87·0	79·5	83·1	+ 0·1	2269	− 27	294	− 87	120	+14	17·54	445	+ 54	4·7	−0·4	36	1014
Western.																			
6. SCOTLAND, WEST ...	83	17	85·3	78·6	81·9	+ 0·1	1811	+ 2	365	− 60	145	+10	27·94	714	+ 11	4·2	−0·2	32	1011
7. ENGLAND N.W.	83	8	85·7	79·4	82·4	+ 0·2	1973	+ 11	310	− 76	130	+ 7	21·37	543	+ 27	4·1	−0·4	31	1013
8. ENGLAND, S.W.	84	17	86·6	79·7	82·9	0·0	2138	− 41	279	− 22	128	+ 7	23·21	595	+ 40	4·8	−0·2	37	1014
9. IRELAND NORTH ...	81	18	85·3	78·9	82·0	− 0·1	1817	− 74	334	− 11	156	+ 9	24·16	619	+ 34	3·8	−0·3	29	1012
10. IRELAND, SOUTH ...	85	20	86·6	79·7	83·0	0·0	2173	− 7	244	− 15	161	+30	24·48	618	+ 1	4·5	0·0	34	1014
11. ENGLISH CHANNEL ...	80	30	86·9	81·4	84·0	0·0	2450	− 5	85	− 24	126	− 2	17·59	445	− 10	5·6	−0·4	43	1015
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., August 31st, 1916.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 137

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 35. SUNDAY, AUGUST 27TH, TO SATURDAY, SEPTEMBER 2ND, 1916. *Price 6d., Post free 7d. Annual Subscription Post Paid £1 10s. 0d.*

I.—THE THIRTY-FIFTH WEEK OF 1916.

The general character of the weather continued unsettled although there were several fair, dry days in the north-west and north of the kingdom. Thunderstorms were experienced in various localities on the 27th, at Gorleston on the 29th, and at Cromer on the 30th. The most salient feature was an abnormal fall of rain that occurred on the 29th in the south-west, south, and south-east of England. In several places the rain was almost continuous for 24 hours, and was unaccompanied by thunder. Falls of about 25 mm. were measured over a very extensive area, and at many stations the value exceeded 40 mm. The heaviest were 99 mm. at Portland Bill, 98 mm. at Torquay, 63 mm. at Weymouth, 58 mm. at Shaftesbury, 54 mm. at Salcombe, and 51 mm. at Marlborough. The rainfall for the week over the kingdom generally was light in Ireland and Scotland, moderate over the northern districts of England, and heavy or very heavy elsewhere. Temperature differed little from the normal except in Scotland East, where it was rather below it. Readings as high as 295a. were recorded some time during the period except in England North-West, Ireland North, and Scotland North and East. Slight frost occurred on the grass locally in England and Scotland, but the lowest reading in the screen was 273·5a. in Scotland East on August 29th (at West Linton). In the other districts the minimum values ranged from 276a. in Scotland North to 280a. in England South-West, and to 284a. in the English Channel. Bright sunshine was abundant in Scotland North and West and England North-West, moderate or scanty in most other districts, and very scanty in England South-East. The brightest district was Scotland West, with a mean daily duration of 5·7 hours, and the dullest England South-East, with 3·4 hours. The mean temperature of the sea surface water was above the normal generally—as much as 3·2a. at Cleggan. At Wick, however, it was 0·7a. below it.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.
		m/s		m/s		m/s		m/s		m/s		m/s		m/s		m/s
South	4	4·8	3	4·9	4	1·6	3	2·0	4	3·8	2	2·9	5	3·4	4	2·6
North	3	1·5	4	1·1	3	4·3	4	2·3	3	3·9	4	4·2	1	3·0	3	2·4
West	5	3·4	4	3·6	4	2·6	6	1·9	6	3·7	4	4·0	5	3·6	4	3·0
East	2	1·2	3	1·3	2	6·9	1	1·8	1	2·3	2	4·2	2	1·9	2	0·8
Calm	0	—	0	—	0	—	0	—	0	—	1	—	0	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c is printed on a separate sheet. *See below*, Note (1).		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with normal for the time of year ...	Warmth ...	Moderate	Deficient	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Light	Light	Moderate	Very heavy	Heavy	Very heavy	Light	Moderate	Very heavy	Light	Light	Very heavy
	Sunshine ...	Abundant	Moderate	Moderate	Scanty	Moderate	Very scanty	Abundant	Abundant	Scanty	Moderate	Moderate	Scanty

II.—THE SUMMER SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

SUMMER. 13 weeks from June 4th, 1916.												
Warmth ...	5, 3, 5	5, 1, 7	5, 2, 6	4, 1, 8	5, 2, 6	4, 2, 7	6, 1, 6	5, 3, 5	5, 2, 6	6, 2, 5	6, 2, 5	5, 2, 6
Rainfall ...	2, 4, 7	6, 1, 6	5, 5, 3	4, 6, 3	4, 5, 4	4, 5, 4	5, 2, 6	3, 5, 5	6, 1, 6	1, 6, 6	4, 3, 6	2, 5, 6
Sunshine ...	2, 6, 5	4, 1, 8	3, 1, 9	1, 3, 9	3, 1, 9	1, 5, 7	5, 3, 5	5, 1, 7	3, 4, 6	4, 3, 6	5, 3, 5	2, 6, 5

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.) and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.

Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(9064—19.) Wt. 79a—736. 450. 9/16. D & S. G. 17/ 36.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average	
0. SCOTLAND, N.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
a, Islands ..	*p Baltasound*	*31*	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	*Baltasound.*
	a Lerwick ..	54	59	1st	45	28th	57·1	48·0	52·3	+ 0·6	4	0·24	6	—	5·8	+ 2·0	41	*	*	*	*	*	*	Deerness.
	a Stornoway ..	51	63	30th	40	30th	59·3	46·9	52·7	− 0·6	5	0·60	15	− 10	5·9	+ 1·8	42	*	*	*	*	*	*	Stornoway.
	a Castlebay, Barra Isd. ..	*37*	*61*	*31st*	*48*	*30th*	*59·0*	*51·0*	*54·8*	+ *0·7*	5	*0·40*	*10*	—	*6·4*	—	*46*	*	*	*	*	*	*	*Castlebay.*
b, Mainland.	*a* Wick	81	63	2nd	37	30th	57·1	44·9	50·6	− 2·9	2	0·06	1	− 15	*	*	*	*	*	*	*	*	*	
	p Strathpeffer	200	?64	30th	?41	28th	?60·9	?45·7	?52·8	− 1·2	4	0·14	4	− 11	3·6	− 0·3	26	*	*	*	*	*	*	Strathpeffer.
	p Glencarron	500	67	31st	42	30th	59·1	46·9	52·6	− 0·1	5	0·55	14	− 31	*	*	*	*	*	*	*	*	*	
	p Fort Augustus.. ..	68	65	29, 31	46	29th	61·4	49·0	54·8	+ 0·1	4	1·07	27	+ 5	3·1	+ 0·2	22	*	*	*	*	*	*	Fort Augustus.
	p Fort William	171	68	30th	42	29th	63·7	48·0	55·4	+ 0·5	4	1·32	34	+ 4	*	*	*	*	*	*	*	*	*	
1. SCOTLAND, E.																								
	p Gordon Castle	101	66	31, 1, 2,	40	30th	62·7	46·0	53·9	− 1·2	2	0·03	1	− 16	4·2	—	30	2	29	56·7	+0·7	56·2	+0·9	Crathes.
	a Nairn	82	67	31st	42	30th	61·4	46·7	53·6	− 1·2	4	0·14	4	− 10	5·2	—	37	*	*	*	*	*	*	Nairn.
	a Aberdeen	46	66	1st	41	29th	61·4	46·4	53·5	− 1·6	1	0·24	6	− 9	5·9	+ 1·3	42	*	*	*	*	53·6	−0·3	Aberdeen.
	a Balmoral	930	61	29th	37	29th	58·0	41·0	49·0	− 2·7	5	0·63	16	− 3	*	*	*	0	35	*	*	*	*	Balmoral.
	p Crieff	432	65	29, 30	38	29th	62·3	45·0	53·1	− 2·5	3	0·42	11	− 11	4·3	—	31	*	*	*	*	*	*	Balruddery.
	a Leith	18	67	31st	41	30th	62·4	48·6	55·1	− 1·8	3	0·26	7	− 7	*	*	*	*	*	*	*	*	*	
	a West Linton	769	65	27th	33	29th	60·6	42·3	50·9	− 1·5	4	0·35	9	—	*3·7*	—	*26*	2	29	*	*	*	*	*West Linton.*
	p Marchmont	498	65	1st	42	29th	63·6	45·3	53·9	− 0·3	5	0·83	21	+ 3	4·0	− 0·5	29	0	36	*	*	*	*	Marchmont.
	a Edinburgh	*441*	*63*	*2nd*	*45*	*29th*	*60·3*	*49·3*	*54·5*	—	*2*	*0·29*	*7*	—	5·2	—	37	0	39	*	*	*	*	Edinburgh.
6. a, SCOTLAND, W.																								
	a Poltalloch	132	63	30, 2	—	—	62·0	—	—	—	3	0·22	6	− 22	*	*	*	*	*	*	*	*	*	
	p Glasgow Observatory	180	66	31st	43	29th	62·7	49·7	55·8	+ 0·9	3	0·33	8	− 14	4·2	+ 0·3	30	0	33	*	*	*	*	Glasgow.
	p Rothesay	170	65	27, 28	44	29th	63·3	50·0	56·3	+ 0·6	4	0·30	8	− 19	*6·1*	—	*44*	0	40	58·9	*	57·1	+1·4	*Rothesay.*
	a Kilmarnock	90	72	27th	40	29th	68·0	48·0	57·4	+ 2·1	3	0·37	9	—	*6·1*	—	*44*	*	*	58·4	*	56·7	*	*Kilmarnock.*
	a Colmonell	170	67	27th	41	29th	64·4	49·0	56·2	− 0·2	4	0·20	5	− 19	*	*	*	0	41	*	*	*	*	
	a Dumfries	160	67	27th	41	29th	63·7	48·6	55·7	− 1·4	2	0·27	7	− 14	*5·5*	—	*40*	0	38	60·4	*	60·0	*	*Dumfries.*
	Eskdalemuir	*799*	*64*	*27th*	*34*	*29th*	*60·0*	*42·1*	*50·5*	—	*5*	*0·86*	*22*	—	*3·6*	—	*26*	*	*	*	*	*	*	*Eskdalemuir.*
	p Cally, Gatehouse ..	120	68	27th	40	29th	65·4	47·4	55·9	+ 1·2	4	0·69	15	− 11	*	*	*	*	*	*	*	*	*	
b, I. OF MAN.	*p* Douglas	277	65	27th	49	28th	62·0	52·0	56·7	+ 1·0	4	0·56	14	− 10	7·2	+ 1·9	52	0	44	*	*	*	*	Douglas.
2. ENGLAND, N.E.																								
a North ..	*a* Alnwick Castle ..	210	66	1, 2	41	31st	62·6	47·3	54·5	− 0·9	3	0·24	6	− 11	3·8	—	27	0	41	55·4	+1·0	55·8	+1·0	Cockle Park.
	a Tynemouth	71	65	31, 1	48	31st	61·7	51·1	56·1	− 0·2	3	0·47	12	− 2	*	*	*	*	*	*	*	*	*	Tynemouth.
	p Durham	336	67	27, 2	42	31st	63·3	48·3	55·4	− 1·3	3	0·48	12	− 1	3·7	− 0·8	27	0	38	*	*	*	*	Durham.
	p Rounton	249	71	27th	43	31st	64·7	48·9	56·3	+ 0·5	2	0·22	6	− 7	*	*	*	0	33	58·9	*	*	*	Rounton.
	a West Witton	*605*	*71*	*27th*	*42*	*31st*	*64·9*	*50·1*	*57·1*	—	*5*	*0·48*	*12*	—	*	*	*	0	37	58·9	*	55·7	*	*West Witton.*
	p Scarborough† ..	100	71	2nd	47	31st	65·7	52·3	58·6	+ 1·5	3	0·38	10	− 4	4·5	—	32	*	*	*	*	55·0	*	Scarborough.
	p York	56	72	27th	45	31st	66·9	53·0	59·5	+ 1·9	3	0·16	4	− 9	4·6	+ 0·1	33	*	*	60·9	+2·6	59·0	+1·8	York.
b, South ..	*a* Spurn Head	26	70	27th	53	30,31,1,2	66·0	53·6	59·4	+ 1·0	4	0·40	10	− 1	*5·4*	—	*39*	*	*	*	*	*	*	*Spurn Head.*
	a Lincoln	58	72	27th	45	31st	67·9	50·7	58·8	+ 0·4	4	1·00	25	+ 12	*	*	*	*	*	60·1	+1·1	59·9	+2·3	Lincoln.
	a Fulbeck	180	72	27th	43	31st	66·9	50·0	57·9	− 0·4	6	1·00	25	+ 12	6·0	—	44	0	44	60·8	+0·2	58·3	−0·5	Ranceby.
															6·3	—	46	*	*	*	*	*	*	Skegness.
3. ENGLAND, E.																								
a, North ..	*p* Cromer	196	73	23th	48	31st	66·3	52·6	59·0	+ 0·8	6	0·89	23	—	5·3	—	39	*	*	*	*	*	*	Cromer.
	p Little Massingham ..	280	72	27, 28	43	31st	66·6	49·7	57·6	− 0·7	4	2·09	53	+ 38	4·7	− 0·6	34	*	*	*	*	*	*	Lit. Massingham.
	a Yarmouth	13	73	28th	44	31st	66·6	51·1	58·4	− 0·4	5	1·10	28	+ 15	4·6	—	34	*	*	60·4	−1·5	58·3	−3·3	Yarmouth.
	a Norwich	93	72	28th	43	31st	66·0	51·4	58·3	− 0·4	5	1·84	47	—	*4·0*	—	*29*	0	38	60·8	*	*	*	*Norwich.*
	a Geldeston	37	72	1st	41	31st	66·6	50·4	58·0	− 0·4	5	2·41	61	+ 49	3·6	− 2·2	26	*	*	*	*	*	*	Geldeston.
b, South ..	*p* Cambridge	41	73	27th	41	31st	65·6	50·1	57·4	− 2·2	4	1·39	35	+ 23	3·8	− 1·9	28	0	35	60·4	−0·2	59·7	−0·2	Cambridge.
	a Clacton-on-Sea ..	54	71	28th	46	31st	66·0	53·4	59·3	− 0·4	5	1·55	39	—	3·2	—	23	0	43	61·0	+0·5	60·5	+0·4	Clacton.
	a Rothamsted	424	69	28th	42	31st	63·7	50·9	56·9	− 0·9	7	1·55	39	+ 25	3·4	− 2·2	25	0	37	58·9	*	*	*	Rothamsted.
	p Tottenham	51	73	28th	46	31st	66·1	54·4	59·9	+ 0·3	7	2·54	65	—	3·1	—	23	0	42	*	*	61·7	−0·2	Tottenham.
4. MIDLAND COUNTIES.																								
a North ..	*a* Harrogate	479	69	27th	46	31st	64·6	51·0	57·4	+ 1·5	3	0·25	6	− 9	5·1	—	37	0	41	58·4	+2·8	57·6	+2·1	Harrogate.
	p Buxton	*987*	*64*	27, 31, 1	*43*	*31st*	*61·6*	*48·6*	*54·7*	− *0·2*	*5*	*0·65*	*17*	− *8*	*4·2*	—	*31*	0	35	57·4	+0·3	57·1	+1·8	*Buxton.*
															5·0	—	36	0	40	59·0	+1·3	56·6	+0·7	Sheffield.
b, East ..	*a* Bawtry	65	72	27th	43	2nd	66·7	50·3	58·0	+ 0·4	3	0·38	10	− 2	4·5	+ 0·1	33	0	34	58·6	*	57·3	*	Worksop.
	a Nottingham	82	72	27th	43	31st	66·0	48·3	56·6	− 1·2	6	1·24	32	+ 19	5·2	—	38	0	38	59·3	+1·4	59·1	+0·4	Nottingham.
	p Birmingham, Edgbsn.	535	68	1, 2	45	31st	64·6	50·9	57·5	− 0·7	4	0·94	24	+ 10	3·7	—	27	0	34	55·4	+0·1	54·1	−0·1	Birmingham.
	a Raunds	203	71	27, 1	41	31st	66·4	49·6	57·5	− 0·6	5	2·26	57	—	*4·0*	—	*29*	1	29	61·5	*	58·0	*	*Raunds.*
	p Oxford	208	69	28, 1	43	31st	65·1	52·6	58·5	− 0·3	5	2·08	52	+ 40	3·9	− 1·6	28	0	34	*	*	*	*	Oxford
c, West ..	*a* Cheadle	646	68	1st	42	31st	63·9	48·6	55·8	− 0·1	4	0·38	10	− 8	*	*	*	0	35	*	*	*	*	Cheadle.
	p Shrewsbury	191	70	2nd	41	29, 31	66·0	47·1	56·0	− 1·9	4	0·33	8	—	*	*	*	0	37	*	*	*	*	Shrewsbury.
	a Hereford§	291	—	—	—	—	—	—	—	—	—	—	—	—										
	a Bath	66	71	28th	42	31st	67·0	52·1	59·1	+ 0·4	5	1·74	44	+ 29	*4·3*	—	*31*	*	*	60·8	*	61·2	*	*Malvern.*§
															3·4	—	25	*	*	61·8	−0·2	61·2	−0·1	Bath.
5. ENGLAND, S.E.																								
	a Marlborough	424	70	28th	38	31st	64·6	50·7	57·2	+ 0·5	6	2·61	66	+ 51	4·4	—	32	0	42	63·9	+1·8	61·5	+0·5	Worthing.
	a Margate	53	71	27, 28	50	31st	66·7	55·4	60·7	+ 0·3	4	1·00	25	+ 14	3·3	− 2·0	24	0	32	59·7	*	58·0	*	Marlborough.
	a Wisley, Surrey ..	150	72	28th	44	31st	66·3	53·6	59·6	− 0·4	7	1·87	48	—	2·9	− 2·8	21	0	46	63·3	+2·6	63·6	+3·7	Margate.
	p Salisbury (Wilton) ..	180	71	1st	41	31st	67·1	51·1	58·6	− 0·5	6	3·57	91	+ 77	3·3	—	24	0	36	61·6	+1·0	59·7	−0·5	Wisley.
	a Tunbridge Wells ..	354	72	28th	43	31st	67·1	53·1	59·7	+ 1·0	6	0·80	20	+ 7	*	*	*	0	39	62·3	*	*	*	Salisbury.
															2·9	− 3·0	21	0	34	61·4	−0·1	60·1	*	Tunbridge Wells.
	a Dungeness	21	68	27, 28	45	31st	65·0	55·3	59·9	− 0·2	5	0·79	20	+ 8	*	*	*	*	*	*	*	*	*	Littlestone.
	p Hastings..	178	68	27, 28	47	31st	65·7	56·0	60·6	+ 0·6	5	1·26	32	+ 18	4·1	− 2·3	30	0	43	63·4	*	61·4	*	Hastings.
	p Southampton	64	72	28, 1	46	31st	68·0	55·1	61·2	+ 0·5	5	1·91	48	+ 34	3·4	− 2·8	25	0	39	*	*	*	*	Southampton.
	a Ventnor	59	70	28th	52	30, 31	67·4	57·6	62·2	+ 1·0	5	1·69	43	+ 30	3·2	− 3·2	24	*	*	*	*	*	*	Ventnor.
LONDON.	*p* Kew Observatory ..	18	70	28th	46	31st	65·7	54·1	59·6	+ 0·4	7	2·12	54	+ 41	3·1	− 2·5	23	0	37	60·6	+0·2	59·0	+0·1	Kew Obs.
	a Westminster	*27*	*73*	*28th*	*45*	*31st*	*66·7*	*54·5*	*60·2*	+ *0·2*	*7*	*2·46*	*62*	+ *49*	*3·2*	− *1·8*	*24*	0	42	*	*	*	*	*Westminster.*
	a Greenwich	*155*	*75*	*28th*	*46*	*31st*	*67·3*	*53·3*	*59·9*	− *0·5*	*7*	*1·99*	*51*	+ *39*	*3·2*	− *2·9*	*24*	0	39	*	*	*	*	*Greenwich.*
	a Hampstead	*450*	*70*	*28th*	*44*	*31st*	*64·3*	*51·4*	*57·5*	—	*7*	*2·27*	*58*	—	*3·2*	—	*24*	1	29	*	*	*	*	*Hampstead.*
	a Camden Square ..	*110*	*74*	*28th*	*44*	*31st*	*66·7*	*53·3*	*59·6*	—	*7*	*2·75*	*70*	—	*2·9*	—	*21*	0	43	*	*	*	*	*Camden Square.*
7. a, ENGLAND, N.W.																								
	p Aspatria (Mealsgate)	487	64	27th	42	29th	62·0	48·6	54·9	− 1·0	2	0·41	10	− 15	5·7	—	42	*	*	*	*	*	*	Hoylake.
	p Newton Rigg	559	68	27th	41	31st	64·7	47·3	55·5	+ 0·7	3	0·25	6	− 13	6·0	—	43	0	40	58·4	*	56·9	*	Aspatria.
	p Stonyhurst	375	66	27, 31	46	31st	63·7	51·4	57·2	+ 1·2	3	0·29	7	− 20	5·1	+ 0·5	37	0	38	60·1	+2·8	57·1	+1·0	Newton Rigg.
	p Blackpool	66	70	31st	47	31st	65·4	53·9	59·3	+ 1·8	2	0·75	19	− 1	3·6	− 1·0	26	0	41	*	*	*	*	Stonyhurst.
	a Southport	37	69	31st	47	31st	64·3	53·0	58·3	+ 0·9	2	0·77	20	0	6·0	+ 1·1	43	0	38	61·9	*	58·3	*	Blackpool.
	a Liverpool (Bidston) ..	188	69	31st	49	31st	63·3	53·1	57·9	+ 0·8	3	0·98	25	+ 8	6·2	+ 1·2	45	0	41	62·2	+1·9	61·3	+1·1	Southport.
	a Hawarden Bridge ..	22	69	31st	43	31st	64·7	49·6	56·7	− 1·8	3	0·42	11	− 4	*5·0*	—	*36*	*	*	*	*	*	*	*Liverpool.*
	p Manchester (Whit. Pk.)	125	70	31, 2	43	31st	65·9	51·4	58·2	+ 0·9	3	0·77	20	+ 4	*3·3*	—	*24*	0	43	60·4	+2·0	61·7	+2·5	*Manchester (City)*
															3·6	− *0·3*	*26*	*	*	*	*	*	*	" (*Whit. Park*)
b, NORTH WALES.																								
	p Llandudno	71	69	31st	44	29th	63·9	52·4	57·8	− 0·8	2	0·90	23	+ 7	6·2	+ 1·2	45	*	*	*	*	*	*	Llandudno.
	a Holyhead	15	65	27, 31, 2	51	2nd	63·4	54·3	58·6	+ 0·8	2	1·26	32	+ 14	*6·9*	—	*50*	*	*	*	*	*	*	*Holyhead.*
	p Bettws-y-Coed ..	118	68	31st	40	29th	63·4	47·4	54·9	− 3·0	5	1·43	36	—	4·0	—	29	*	*	56·3	+0·4	55·0	−0·2	Bettws-y-Coed.
															4·9	—	36	*	*	*	*	*	*	Aberdovey

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.		Deviation from Normal.	Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts.	Lowest Reading.	Mean.	Deviation from average.	Mean.	Deviation from average	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														4·6	—	34	*	*	*	*	*	*	
a Llangammarch Wells	550	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	Aberystwyth.
a Pembroke	149	65	27th	50	29, 2	62·4	54·3	58·1	+ 0·1	4	0·81	21	+ 4	5·7	- 0·1	42	*	*	*	*	*	*	Llangammarch.
p Cardiff	202	69	27th	49	31st	65·1	52·9	58·6	- 0·2	6	1·60	41	+ 17	*5·4*	—	*39*	0	43	61·2	+1·2	59·9	+0·4	Pembroke. *Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	70	27th	48	31st	66·3	54·1	59·8	+ 0·2	5	1·81	46	+ 27	*4·8*	*	*35*	0	44	*	*	*	*	*Clifton.*
a Shaftesbury	722	68	1st	47	30, 31	64·0	52·1	57·7	- 0·2	7	4·18	106	+ 89	*	*	*	*	*	60·1	*	60·2	*	Shaftesbury.
a Arlington	613	68	27th	47	29th	63·7	51·1	57·0	0·0	7	2·04	52	+ 24	*	*	*	*	*	*	*	*	*	Arlington.
a Newquay	*190*	*69*	28, 29, 2	*53*	*29th*	*65·9*	*56·0*	*60·7*	+ *1·4*	*6*	*1·04*	*26*	+ *12*	5·0	- 1·2	37	*	*	63·4	*	60·1	*	Newquay.
a Cullompton	202	72	1st	45	31st	67·4	52·1	59·3	+ 0·9	7	2·11	54	+ 37	3·6	- 2·0	26	0	42	61·0	*	*	*	Cullompton.
a Portland Bill	19	65	28th	51	30th	63·4	56·4	59·7	- 0·5	6	4·53	115	—	*4·2*	—	*31*	*	*	*	*	*	*	*Weymouth.*
p Plymouth	116	71	28th	52	31st	66·3	55·9	60·8	+ 1·0	6	1·44	37	+ 21	3·5	- 2·5	26	*	*	62·8	+0·9	60·3	*	Plymouth.
a Falmouth	167	70	28th	53	29th	65·1	55·6	60·1	+ 1·1	7	1·50	38	+ 19	4·3	- 2·1	32	0	48	63·7	*	62·2	*	Falmouth.
9. IRELAND, N.																							
a, West .. *a* Malin Head	208	65	27th	50	23, 29	61·1	52·4	56·5	+ 0·5	5	0·38	10	- 10	*6·8*	—	*49*	*	*	*	*	*	*	*Malin Head.*
a Blacksod Point ..	9	63	27, 31	50	28, 30	61·6	52·0	56·5	- 0·2	7	0·71	18	- 9	*	*	*	*	*	*	*	*	*	*
p Markree Castle ..	122	67	27th	42	30th	64·3	46·9	55·1	- 0·3	4	0·61	15	- 9	4·6	+ 0·7	33	0	38	60·3	*	57·7	*	Markree Castle.
a Birr Castle	175	70	27th	47	30th	64·1	50·6	57·0	+ 0·6	3	0·41	10	- 10	*4·1*	- *0·4*	*30*	*	*	*	*	*	*	*Birr Castle.*
b, East .. *p* Armagh	196	68	27th	42	30th	64·3	47·6	55·5	- 0·3	3	0·34	9	- 11	4·4	+ 0·3	32	0	37	61·0	+2·3	59·0	+1·2	Armagh.
a Donaghadee	101	67	27th	49	29th	63·1	50·3	56·3	- 0·2	4	0·14	4	- 15	*	*	*	0	40	61·5	+2·5	59·0	+0·9	Trinity Coll.
10. IRELAND, S.														4·6	- 0·5	34	0	38	*	*	*	*	Phœnix Park.
a, East .. *p* Dublin, City	47	70	31st	47	30th	64·6	52·9	58·4	+ 0·1	4	1·21	31	+ 13	*	*	*	0	44	*	*	*	*	Dublin City.
a Kilkenny	212	69	31st	42	2nd	65·0	49·3	56·7	- 0·1	3	0·16	4	- 15	*	*	*	*	*	*	*	*	*	*
a Waterford	20	69	27th	45	2nd	65·0	50·9	57·5	- 0·2	3	0·40	10	- 11	*	*	*	*	*	*	*	*	*	*
a Seskin, Carrick-on-Suir	*541*	*69*	*27th*	*45*	*30th*	*63·6*	*50·4*	*56·6*	—	*3*	*0·30*	*8*	—	*3·5*	—	*26*	0	38	*	*	*	*	*Seskin.*
b, West .. *a* Birr Castle	175	70	27th	47	30th	64·1	50·6	57·0	+ 0·6	3	0·41	10	- 10	4·1	- 0·4	30	*	*	*	*	*	*	Birr Castle.
a Foynes	50	69	27th	50	30th	65·1	53·7	59·1	+ 1·7	4	0·24	6	- 15	*	*	*	*	*	*	*	*	*	*
a Cahir	198	70	31st	43	2nd	65·7	49·9	57·3	+ 0·2	2	0·65	14	—	*	*	*	*	*	*	*	*	*	*
a Killarney	174	73	27th	47	2nd	67·4	52·3	59·4	+ 2·2	5	0·45	11	- 15	*	*	*	*	*	*	*	*	*	*
a Valencia	30	68	27th	49	2nd	64·1	54·1	58·8	+ 1·1	4	0·24	6	- 22	5·3	+ 0·6	39	*	*	*	*	*	*	Valencia.
a Roche's Point	32	67	27th	49	2nd	64·0	53·6	58·5	+ 0·4	5	0·80	20	- 2	3·0	—	22	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	68	27th	51	30th	64·3	56·1	60·0	- 0·1	7	2·83	72	+ 57	4·7	- 2·1	35	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	70	*2nd*	54	30, 31	68·0	58·4	62·9	+ 0·9	4	1·82	46	+ 31	5·2	- 2·0	38	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	70	27, 28, 2	52	30th	67·4	57·4	62·1	+ 0·9	4	2·11	54	+ 37	5·5	- 1·7	40	0	47	64·2	+1·0	63·2	+1·1	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, September 2nd, 1916.

DISTRICT AND STATION.	Height.			Distribution of Wind.									Extreme Velocities.					
				Gales, force 8 or more.		High Winds, forces 6 and 7.		Fresh or Moderate Winds, forces 4 and 5.	Light Winds, forces 2 and 3.	Calms and Light Airs, forces 0 and 1.	No Record.	Highest Hourly Wind.			Highest Gust with Date and Time, G.M.T.		
	Above Mean Sea Level.	Above Ground.	Above Building.	Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Velocity.		Date and Hour, G.M.T.			
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.		m/s.	d.	h. m.
1. SCOTLAND, E.																	
Dyce	305	75	115**	—	—	—	—	2	72	91	3	—	6	31st 18h.	17	31st	18 . 45
Aberdeen*	153	105	37 † 52 †	—	—	—	—	15	114	39	0	SW.	7	1st 15h.	14	1st	13 . 53
Edinburgh	485	39	31	—	—	31st	2	52	73	41	0	S. by W.	12	31st 17h.	20	31st	17 . 25
6. SCOTLAND, W.																	
Eskdalemuir	850	50	22	—	—	31, 1	10	23	46	89	0	SSW.	13	31st 12h.	20	31st	12 . 10
Paisley	188	81	52	—	—	—	—	21	80	64	0	SW. by S.	10	31st 13h.	20	31st	13 . 32
2. ENGLAND, N.E.																	
Alnwick Castle	340	70	17	—	—	—	—	2	70	96	0	WSW.	6	1st 15h.	13	1st	14 . 20
South Shields	72	61	12	—	—	—	—	25	96	40	7	W. by N.	9	1st 15h.	16	31st	14 . 58
Spurn Head	66	40	‡	—	—	30th	4	71	87	6	0	E. by N.	12	30th 8h.	16	30th	8 . 18
3. ENGLAND, E.																	
Gorleston	52	42	‡	—	—	29, 30	23	17	113	15	0	—	17	30th 7h.	22	30th	6 . 42
Shoeburyness	103	90	‡	—	—	—	—	16	48	13	91	N. by E.	11	30th 12h.	19	30th	11 . 32
4. MIDLAND COUNTIES.																	
Benson	270	84	‡	—	—	—	—	33	91	35	9	N.	11	30th 1h.	18	30th	1 . 26
5. ENGLAND, S.E.																	
Dover	271	40	‡	—	—	30th	8	53	61	46	0	—	17	30th 13h	27	30th	12 . 53
Warlingham	642	33	‡	—	—	—	—	11	126	31	0	—	7	30th 6h.	18	30th	6 . 42
Brighton	261	53	6	—	—	—	—	41	97	30	0	—	9	30th 8h.	18	30th	7 . 52
Kew Observatory ..	82	65	6 † 22 †	—	—	—	—	17	103	48	0	N. by E.	9	30th 5h.	18	30th	7 . 30
South Kensington ..	123	92	30	—	—	—	—	4	98	66	0	N.	6	30th 4h.	13	30th	7 . 52
7. ENGLAND, N.W.																	
Carnforth	246	56	23	—	—	—	—	5	66	97	0	SW.	6	1st 12h.	12	31st	14 . 54
Southport	80	62	48	—	—	31, 1	10	82	76	0	0	SW.	12	31st 16h.	19	31st	16 . 43
Holyhead*	60	40	‡	—	—	28, 31	8	109	50	1	0	S. by W.	12	31st 14h.	18	31st	13 . 59
8. ENGLAND, S.W.																	
Pendennis Castle§ ..	256	65	24	—	—	27, 29, 31, 1	31	55	65	17	0	N.	16	29th 18h.	23	29th	18 . 22
Plymouth	185	88	2	—	—	29th	2	49	73	44	0	—	11	29th 15h.	19	29th	19 . 2
Lyme Regis	556	61	‡	—	—	29, 30	9	48	49	46	16	—	16	29th 24h.	23	29th	23 . 45
10. IRELAND, S.																	
Quilty	100	40	‡	—	—	31st	3	66	73	26	0	—	12	31st 10h.	18	31st	9 . 55
Weaver Pt.	160	30	‡	—	—	31st	3	34	124	7	0	—	12	31st 13h.	20	31st	12 . 50
11. ENGLISH CHANNEL.																	
Scilly*	150	32 19	‡	—	—	29, 30	19	43	72	34	0	N.	15	29th 19h.	21	29th	17 . 20

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory.

† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof. ** Above tops of trees.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

THIRTY-FIFTH WEEK—August 27th to September 2nd, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Accumulated Number of Day-Degrees. Deviation from Normal.	Accumulated Number of Day-Degrees. Below 42°	Accumulated Number of Day-Degrees. Deviation from Normal.	Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	68	37	88·4	81·4	84·7	− 0·4	77	− 5	0	0	4	− 1	0·57	14	− 14	4·6	+1·1	33	1005
Eastern.																			
1. SCOTLAND, EAST ...	67	33	89·4	80·3	84·6	− 1·1	76	− 14	0	0	3	− 2	0·36	9	− 9	4·8	+0·3	34	1006
2. ENGLAND, N.E.	72	41	91·4	83·3	87·1	+ 0·4	108	+ 5	0	0	3	− 1	0·48	12	− 4	4·8	+0·1	35	1007
3. ENGLAND, EAST ...	73	41	91·8	83·9	87·6	− 0·1	114	− 1	0	0	5	+ 1	1·71	43	+ 29	4·0	−1·5	29	1008
4. MIDLAND COUNTIES ...	72	41	91·7	83·1	87·1	0·0	108	+ 1	0	0	4	0	1·06	27	+ 11	4·4	−0·4	32	1008
5. ENGLAND, S.E.	72	38	92·1	85·3	88·5	+ 0·2	125	+ 2	0	0	6	+ 2	1·76	45	+ 28	3·4	−2·3	25	1008
Western.																			
6. SCOTLAND, WEST ...	72	40	90·9	82·6	86·5	+ 0·4	100	+ 6	0	0	3	− 2	0·36	9	− 20	5·7	+1·2	41	1007
7. ENGLAND, N.W.	70	40	90·8	83·5	86·9	0·0	106	+ 1	0	0	3	− 2	0·75	19	− 4	5·2	+0·7	38	1008
8. ENGLAND, S.W.	72	45	91·3	85·1	88·0	+ 0·5	119	+ 6	0	0	6	+ 2	2·22	57	+ 34	4·5	−1·0	33	1008
9. IRELAND, NORTH ...	70	42	90·3	83·0	86·4	+ 0·3	99	+ 3	0	0	4	− 1	0·43	11	− 13	4·5	+0·6	32	1007
10. IRELAND, SOUTH ...	73	42	91·3	84·1	87·5	+ 0·6	113	+ 7	0	0	4	0	0·50	12	− 11	4·3	−0·3	31	1009
11. ENGLISH CHANNEL ...	70	52	92·2	87·1	89·5	+ 0·6	138	+ 7	0	0	5	0	2·29	57	+ 40	5·1	−1·4	38	1010

THE SEASON (**Summer**).—Aggregates, &c., for the Period of 13 Weeks, June 4th to September 2nd, 1916.

0. SCOTLAND, NORTH ...	81	35	88·4	82·2	85·1	− 0·2	1075	− 31	0	− 2	51	− 5	7·67	194	− 75	3·4	−0·9	20	1013
Eastern.																			
1. SCOTLAND, EAST ...	82	30	89·8	81·8	85·5	− 0·6	1148	− 91	2	+ 1	49	0	10·97	278	+ 66	3·9	−1·4	24	1013
2. ENGLAND, N.E.	84	32	91·0	83·1	86·8	− 0·3	1345	− 53	0	0	44	+ 1	7·02	179	+ 1	4·7	−1·2	29	1014
3. ENGLAND, EAST ...	83	36	91·8	83·6	87·4	− 0·7	1452	−117	0	0	47	+ 6	6·91	176	+ 11	4·9	−1·5	31	1015
4. MIDLAND COUNTIES ...	87	34	92·4	83·0	87·4	− 0·4	1453	− 64	0	0	41	0	6·26	160	− 20	4·9	−0·9	31	1015
5. ENGLAND, S.E.	86	35	92·3	84·0	87·9	− 0·7	1521	−131	0	0	39	0	6·46	165	0	5·8	−0·9	37	1015
Western.																			
6. SCOTLAND, WEST ...	83	32	91·0	83·0	86·7	+ 0·1	1339	+ 28	0	0	44	− 7	8·77	225	− 55	5·5	−0·1	34	1013
7. ENGLAND, N.W.	83	37	90·8	83·9	87·1	− 0·3	1404	− 39	0	0	39	− 8	6·97	176	− 52	5·4	−0·4	34	1014
8. ENGLAND, S.W.	84	35	91·7	84·0	87·6	− 0·3	1478	− 49	0	0	39	− 6	8·71	223	+ 4	6·4	0·0	41	1016
9. IRELAND, NORTH ...	81	35	90·1	83·3	86·5	− 0·2	1307	− 20	0	0	49	− 8	6·88	178	− 74	4·7	0·0	29	1014
10. IRELAND, SOUTH ...	85	35	91·9	84·2	87·8	+ 0·3	1513	+ 46	0	0	49	0	7·88	198	− 48	5·8	+0·5	37	1016
11. ENGLISH CHANNEL ...	80	40	91·8	85·4	88·4	− 0·3	1615	− 52	0	0	34	−12	5·41	137	− 32	7·4	−0·4	49	1017

THE YEAR.—Aggregates, &c., for the Period of 35 Weeks, January 2nd to September 2nd, 1916.

0. SCOTLAND, NORTH ...	81	20	83·9	78·1	80·9	+ 0·1	1494	− 60	454	−103	166	+ 6	33·97	860	+ 62	3·0	−0·6	22	1010
Eastern.																			
1. SCOTLAND, EAST ...	82	7	84·6	77·5	80·9	− 0·2	1615	−155	585	− 35	150	+17	27·59	702	+205	3·5	−0·8	26	1010
2. ENGLAND, N.E.	84	20	85·8	78·8	82·2	+ 0·4	2008	+ 58	379	− 96	131	+11	18·22	464	+ 69	3·9	−0·7	29	1012
3. ENGLAND EAST ...	83	24	86·6	79·2	82·8	+ 0·3	2236	− 24	353	−168	132	+16	18·77	475	+ 99	4·2	−0·8	32	1013
4. MIDLAND COUNTIES ...	87	21	86·8	78·7	82·6	+ 0·2	2213	− 23	405	−128	127	+12	19·08	487	+ 61	3·9	−0·6	29	1013
5. ENGLAND, S.E.	86	15	87·2	79·7	83·3	+ 0·2	2394	− 25	294	− 87	126	+16	19·30	490	+ 82	4·7	−0·4	36	1013
Western.																			
6. SCOTLAND, WEST ...	83	17	85·5	78·7	82·0	+ 0·1	1911	+ 8	365	− 60	148	+ 8	28·30	723	− 9	4·3	−0·1	32	1011
7. ENGLAND N.W.	83	8	85·8	79·5	82·5	+ 0·1	2079	+ 12	310	− 76	133	+ 5	22·12	562	+ 23	4·2	−0·3	31	1013
8. ENGLAND, S.W.	84	17	86·7	79·8	83·0	0·0	2257	− 35	279	− 22	134	+ 9	25·43	652	+ 74	4·8	−0·2	36	1014
9. IRELAND NORTH ...	81	18	85·4	79·0	82·1	− 0·1	1916	− 71	334	− 11	160	+ 8	24·59	630	+ 21	3·8	−0·3	29	1012
10. IRELAND, SOUTH ...	85	20	86·7	79·8	83·1	0·0	2286	0	244	− 15	165	+30	24·98	630	− 10	4·5	0·0	34	1014
11. ENGLISH CHANNEL ...	80	30	87·0	81·6	84·2	0·0	2588	+ 2	85	− 24	131	− 2	19·88	502	+ 30	5·6	−0·4	43	1015
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F			inches.	mm.	mm.	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., September 7th, 1916.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 141

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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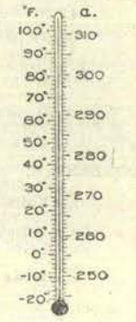
THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 36. SUNDAY, SEPTEMBER 3RD, TO SATURDAY, SEPTEMBER 9TH, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE THIRTY-SIXTH WEEK OF 1916.

The period opened with very unsettled weather over the country generally, and more particularly over Britain, where thunderstorms and heavy rain were experienced over an extensive region on the 3rd, the rainfall exceeding 25 mm. in numerous localities: 37 mm. fell at West Witton, 38 mm. at Alnwick, and 39 mm. at Rounton. On the following day thunderstorms visited Eastern England, but the rainfall there and in other parts of the kingdom was comparatively slight. During the remaining five days there was either no rain at all, or only some insignificant local showers. At individual stations the week's precipitation varied greatly, Dungeness and Margate returning 3 per cent. of the normal, Malin Head 5 per cent., and Wick 7 per cent., while at the other extreme Bawtry had 325 per cent., and Rounton 333 per cent. The district results ranged from 25 per cent. in Ireland North, and 28 per cent. in England South-West to 128 per cent. in England North-West, and 167 per cent. in England North-East. Mild nights were the rule, with numerous minimum temperatures between 286a and 289a. and very few as low as 278a. The day values were more variable, but there were many maxima above 294a., Crathes, West Witton and Bettws-y-Coed touching 297a., and Killarney 298a. For the whole week the mean values ranged from normal over England South-East to an excess of 2a. over Ireland. Bright sunshine showed an excess of ½ hour per day in the north of Scotland, and a normal value in the English Channel. All other districts experienced a deficiency, up to 1·4 hour per day in England East. There was a good deal of mist or fog almost daily. An aurora was seen at Dublin on the 3rd, and at Seskin and in various parts of Scotland next day. The coastal sea water was of normal temperature off Wick and Eastbourne, but elsewhere it was warmer than usual, by 2a. off Burnmouth, and 4a. off the West of Ireland.



WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.
		m/s		m/s		m/s		m/s		m/s		m/s		m/s		m/s
South	5	3·0	2	1·8	1	4·2	2	3·0	2	1·9	1	1·0	4	1·6	2	2·1
North	2	3·9	5	2·0	6	2·9	5	2·1	5	5·2	6	4·5	2	3·3	4	2·8
West	4	3·1	6	2·8	3	3·1	3	2·4	6	3·2	3	5·4	4	4·4	4	3·4
East	3	1·8	1	1·1	4	3·3	3	1·5	1	4·4	4	1·8	3	1·7	2	1·5
Calm	0	—	0	—	0	—	0	—	0	—	¼	—	0	—	1	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c is printed on a separate sheet. *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Unusual	Unusual	Unusual	Moderate	Unusual	Moderate	Unusual	Unusual	Unusual	Unusual	Unusual	Moderate
	Rainfall ...	Light	Moderate	Heavy	Moderate	Moderate	Light	Light	Moderate	Light	Light	Light	Moderate
	Sunshine ...	Abundant	Moderate	Scanty	Scanty	Moderate	Moderate	Moderate	Scanty	Scanty	Moderate	Moderate	Moderate

II.—THE AUTUMN SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

AUTUMN. 1 week from Sept. 3rd, 1916.	Warmth ...	1, 0, 0	1, 0, 0	1, 0, 0	0, 1, 0	1, 0, 0	0, 1, 0	1, 0, 0	1, 0, 0	1, 0, 0	1, 0 0	1, 0, 0	0, 1, 0
	Rainfall ...	0, 0, 1	0, 1, 0	1, 0, 0	0, 1, 0	0, 1, 0	0, 0, 1	0, 0, 1	0, 1, 0	0, 0, 1	0, 0, 1	0, 0, 1	0, 1, 0
	Sunshine ...	1, 0, 0	0, 1, 0	0, 0, 1	0, 0, 1	0, 1, 0	0, 1, 0	0, 1, 0	0, 0, 1	0, 0, 1	0, 1, 0	0, 1, 0	0, 1, 0

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.) and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.

Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(9123—19.) Wt. 79a—736. 450. 9/16. D & S. G. 17/ 36.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.							Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts	Lowest Reading.	Mean	Deviation from Average.	Mean.	Deviation from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.	—	in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.	*37*	—	—	—	—	—	—	—		—	—	—											
a, Islands .. *p Baltasound*	54	61	8th	48	3rd	58·1	50·1	53·9	+ 2·8	5	0·37	9	—	4·8	+ 1·1	35	•	•	•	•	•	•	*Baltasound.*
a Lerwick	51	64	8th	47	3,5	61·3	49·7	55·2	+ 2·5	6	0·60	15	− 10	5·3	+ 1·3	39	•	•	•	•	•	•	Deerness.
a Stornoway	*37*	*63*	*3rd*	*51*	*5,9*	*60·1*	*52·3*	*56·0*	+ *2·2*	*4*	*0·20*	*5*	—	*4·5*	—	*33*	•	•	•	•	•	•	Stornoway.
a Castlebay, Barra Isd. ..																							*Castlebay.*
a Wick	81	68	8th	45	3rd	59·4	48·7	53·8	+ 1·0	2	0·02	1	− 14	•	•	•	•	•	•	•	•	•	
p Strathpeffer	200	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	Strathpeffer.
p Glencarron	500	68	7th	40	3,5	61·6	46·4	53·6	+ 1·8	4	0·65	17	− 30	•	•	•	•	•	•	•	•	•	
p Fort Augustus.. ..	68	67	8th	39	3,5	61·9	47·3	54·3	+ 0·6	4	0·31	8	− 14	2·9	0·0	21	•	•	•	•	•	•	Fort Augustus.
p Fort William	171	71	7th	41	3,5	64·9	48·6	56·4	+ 2·3	2	0·24	6	− 34	•	•	•	•	•	•	•	•	•	
														3·6	—	27	1	29	56·5	+1·5	55·3	+0·6	Crathes.
1. SCOTLAND, E.																							
p Gordon Castle	101	73	6th	44	3rd	65·3	48·7	56·6	+ 2·2	2	0·20	5	− 10	*3·7*	—	*27*	•	•	•	•	•	•	*Gordon Castle.*
a Nairn	82	71	6th	39	3rd	62·0	44·9	53·0	− 1·0	3	0·33	8	− 5	2·9	—	21	•	•	•	•	•	•	Nairn.
a Aberdeen	46	74	6th	46	9th	63·6	50·1	56·5	+ 2·7	2	0·59	15	0	4·4	0·0	32	•	•	•	•	53·3	−0·1	Aberdeen.
a Balmoral	930	71	8,9	35	3,9	64·1	43·6	53·4	+ 2·3	2	0·19	5	− 13	•	•	•	0	34	•	•	•	•	Balmoral.
p Crieff	432	72	7th	41	9th	65·7	47·3	56·1	+ 1·2	2	0·17	4	− 16	5·0	—	37	•	•	•	•	•	•	Balruddery.
a Leith	18	70	8th	41	5th	63·6	51·0	57·0	+ 1·1	2	0·69	17	+ 4	•	•	•	•	•	•	•	•	•	
a West Linton	769	70	7, 8	40	5th	63·1	46·6	54·5	+ 3·1	3	0·90	23	—	3·7	—	*28*	0	37	•	•	•	•	*West Linton.*
p Marchmont	498	72	8th	46	5,9	64·9	48·6	56·4	+ 2·9	2	1·20	30	+ 13	4·0	− 0·3	30	0	39	•	•	•	•	Marchmont.
a Edinburgh	*441*	*73*	*8th*	*44*	*3rd*	*63·9*	*50·3*	*56·8*	—	*2*	*1·09*	*28*	—	3·9	—	29	0	41	•	•	•	•	Edinburgh.
6. *a* SCOTLAND, W.																							
a Poltalloch	132	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	
p Glasgow Observatory	180	71	7th	47	5,9	63·3	51·9	57·3	+ 3·1	3	0·21	5	− 16	4·1	+ 0·4	31	0	34	•	•	•	•	Glasgow.
p Rothesay	170	66	7th	46	4th	61·9	50·7	55·0	+ 0·9	5	0·15	4	− 22	*2·3*	—	*17*	0	40	57·7	•	56·4	+1·8	*Rothesay.*
a Kilmarnock	90	—	—	41	5th	—	47·9	—	—	2	0·20	5	—	*4·2*	—	*31*	•	•	57·7	•	55·9	•	*Kilmarnock.*
a Colmonell	170	72	8th	47	3,9	65·3	51·7	58·2	+ 2·5	4	0·22	6	− 18	•	•	•	0	45	•	•	•	•	
a Dumfries	160	71	8th	47	5th	63·9	51·4	57·4	+ 0·9	3	0·74	19	0	*4·0*	—	*30*	0	41	58·5	•	59·2	•	*Dumfries.*
Eskdalemuir	*799*	*70*	*7th*	*44*	*9th*	*61·6*	*48·1*	*54·5*	—	*4*	*1·01*	*26*	—	*3·9*	—	*29*	•	•	•	•	•	•	*Eskdalemuir.*
p Cally, Gatehouse ..	120	70	9th	45	4th	64·4	49·4	56·5	+ 2·4	3	0·48	12	− 13	•	•	•	•	•	•	•	•	•	
b, I. OF MAN. *p* Douglas	277	69	8th	51	5th	62·0	53·1	57·3	+ 2·3	4	0·57	15	− 8	4·1	− 1·0	31	0	47	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle ..	210	70	7th	41	6th	63·1	48·7	55·6	+ 1·2	3	1·64	42	+ 27	3·1	—	23	0	38	56·0	+2·8	55·1	+1·1	Cockle Park.
a Tynemouth	71	70	7th	47	6th	63·3	50·1	56·4	+ 1·1	2	0·87	22	+ 9	•	•	•	•	•	•	•	•	•	Tynemouth.
p Durham	336	74	7th	40	6th	66·0	49·0	57·1	+ 1·6	2	0·91	23	+ 11	3·7	− 0·5	28	0	37	•	•	•	•	Durham.
a North .. *p* Rounton	249	73	7, 8	42	6th	65·6	49·3	57·1	+ 2·1	3	1·57	40	+ 28	•	•	•	0	38	58·1	•	•	•	Rounton.
a West Witton	*605*	*75*	*7th*	*42*	*6th*	*66·0*	*50·1*	*57·7*	—	*4*	*1·78*	*45*	—	•	•	•	0	37	57·4	•	55·1	•	*West Witton.*
p Scarborough†	100	70	7th	50	5,6	64·3	53·6	58·7	+ 2·5	3	0·39	10	− 3	4·6	—	35	•	•	•	•	55·0	•	Scarborough.
p York	56	73	7th	45	6th	66·4	52·0	58·9	+ 2·3	3	0·44	11	− 1	3·5	− 0·8	26	•	•	59·5	+2·3	58·4	+1·6	York.
a Spurn Head	26	67	9th	50	4, 5	63·9	52·3	57·8	+ 0·2	3	0·76	19	+ 9	*1·6*	—	*12*	•	•	•	•	•	•	*Spurn Head.*
b, South .. *a* Lincoln	58	70	9th	48	7th	66·1	50·9	58·1	+ 0·7	3	0·87	22	+ 10	•	•	•	•	•	59·4	+1·7	59·0	+1·9	Lincoln.
a Fulbeck	180	70	6, 7, 9	46	5th	66·4	49·3	57·4	+ 0·1	3	1·33	34	+ 22	4·2	—	32	0	46	59·6	0·0	57·9	−0·3	Rauceby.
														4·0	—	30	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																							
p Cromer	196	69	8th	50	5th	63·4	53·4	58·2	+ 0·8	4	0·76	19	—	3·6	—	27	•	•	•	•	•	•	Cromer.
p Little Massingham ..	280	66	7th	48	5, 7	62·4	50·7	56·3	− 1·0	3	0·58	15	0	2·8	− 2·3	21	0	46	•	•	•	•	Lit. Massingham.
a, North .. *a* Yarmouth	13	66	6, 7, 9	47	7th	64·1	51·7	57·6	− 0·3	3	0·28	7	− 6	4·8	—	36	•	•	59·7	−0·7	58·0	−2·8	Yarmouth.
a Norwich	93	69	3rd	47	7th	65·4	52·9	58·9	+ 1·0	4	0·52	13	—	*3·3*	—	*25*	0	43	59·8	•	•	•	*Norwich.*
a Geldeston	37	69	3rd	46	5, 7	66·1	51·1	58·2	+ 0·6	4	0·31	8	− 4	3·5	− 2·1	26	•	•	•	•	•	•	Geldeston.
p Cambridge	41	68	3, 7, 8	43	7th	65·1	50·7	57·6	− 1·0	2	0·38	10	− 2	2·9	− 2·5	22	0	39	59·4	+0·1	58·9	−0·4	Cambridge.
b, South .. *a* Clacton-on-Sea ..	54	67	9th	48	5th	64·6	51·9	58·0	− 0·7	4	0·14	4	—	5·2	—	40	0	46	59·6	+0·1	59·7	+0·1	Clacton.
a Rothamsted	424	67	7th	40	7th	63·7	49·6	56·3	− 0·4	2	0·28	7	− 6	3·8	− 1·5	29	0	38	57·8	•	•	•	Rothamsted.
p Tottenham	51	71	7th	49	7th	67·4	53·0	59·9	+ 1·3	1	0·51	13	—	4·6	—	35	0	48	•	•	61·0	−0·2	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate ..	479	72	7th	45	6th	64·1	50·9	57·2	+ 2·2	3	1·33	34	+ 20	4·2	—	32	0	41	57·2	+2·3	56·9	+2·1	Harrogate.
p Buxton	*987*	*67*	*6, 7*	*42*	*6th*	*63·0*	*49·0*	*55·7*	+ *0·8*	*2*	*0·74*	*19*	− *5*	*3·4*	—	*26*	0	38	56·5	+0·7	56·5	+1·6	*Buxton.*
a Bawtry	65	69	7th	46	6, 9	65·7	50·4	57·7	+ 1·1	3	1·52	39	+ 28	3·3	—	25	0	40	58·0	+1·3	56·4	+0·3	Sheffield.
a Nottingham	82	71	7th	46	6, 9	66·9	48·9	57·5	+ 0·8	3	0·37	9	− 3	3·7	− 0·5	28	0	39	58·2	•	56·8	•	Worksop.
b, East .. *p* Birmingham, Edgbsn.	535	68	7, 9	48	6th	64·6	52·1	58·1	+ 1·0	2	0·24	6	− 7	5·0	—	38	0	43	58·5	+1·8	58·4	+0·4	Nottingham.
a Raunds	203	70	7th	42	7th	66·6	48·3	57·0	− 0·2	1	0·24	6	—	3·4	—	26	0	43	59·7	+0·9	59·0	+0·3	Birmingham.
p Oxford	208	69	7th	44	7th	65·9	50·0	57·6	− 0·4	2	0·16	4	− 7	*4·8*	—	*36*	0	33	60·6	•	58·0	•	*Raunds.*
														4·1	− 1·2	31	0	37	•	•	•	•	Oxford
a Cheadle	646	69	9th	46	6th	65·6	51·3	58·1	+ 3·2	2	0·38	10	− 7	•	•	•	0	42	•	•	•	•	Cheadle.
p Shrewsbury	191	72	6th	43	6th	66·6	51·3	58·6	+ 1·5	4	0·08	2	—	•	•	•	0	39	•	•	•	•	Shrewsbury.
c, West .. *a* Hereford§	291	70	6, 7	51	5, 8	66·6	—	—	—	2	0·16	4	− 9	•	•	•	•	•	•	•	•	•	*Malvern.*§
a Bath	66	71	6, 7	45	7th	67·4	50·3	58·4	+ 0·6	2	0·27	7	− 8	5·0	—	38	•	•	61·4	+0·3	60·5	−0·4	Bath.
														7·1	—	54	0	47	61·8	+1·0	61·0	+0·5	Worthing.
5. ENGLAND, S.E.																							
a Marlborough	424	67	6, 7	40	7th	65·3	46·7	55·6	− 0·2	3	0·45	11	− 3	4·7	− 0·3	36	0	35	59·0	•	58·0	•	Marlborough.
a Margate	53	70	3rd	53	4–6	65·7	56·6	60·9	+ 1·2	1	0·01	0·3	− 22	4·4	− 1·0	34	0	50	62·0	+1·3	62·3	+3·2	Margate.
a Wisley, Surrey ..	150	68	3, 7	47	7th	65·6	51·3	58·1	− 0·8	2	0·32	8	—	3·7	—	28	0	39	59·7	+0·4	59·0	−0·6	Wisley.
p Salisbury (Wilton) ..	180	71	6th	43	7th	67·4	48·1	57·3	− 0·7	1	0·39	10	− 3	•	•	•	0	40	62·1	•	•	•	Salisbury.
a Tunbridge Wells ..	354	70	6th	47	5th	66·7	52·6	59·3	+ 1·7	2	0·22	6	− 7	4·0	− 1·7	31	0	40	60·4	+0·4	59·6	•	Tunbridge Wells.
a Dungeness	21	69	6th	46	5th	68·0	53·7	59·6	+ 0·2	1	0·02	0·4	− 12	•	•	•	•	•	•	•	•	•	Littlestone.
p Hastings..	178	69	6th	48	5th	66·7	53·6	59·8	+ 0·5	3	0·30	8	− 7	5·9	− 0·2	45	0	45	61·8	•	61·0	•	Hastings.
p Southampton	64	69	6th	48	7th	66·6	51·7	58·8	− 0·9	1	0·30	8	− 6	6·7	+ 0·8	51	0	40	•	•	•	•	Southampton.
a Ventnor	59	69	9th	51	5, 6	67·4	54·9	60·9	+ 0·4	2	0·48	12	− 2	6·4	+ 0·2	49	•	•	•	•	•	•	Ventnor.
LONDON. *p* Kew Observatory ..	18	68	7th	50	5th	65·5	53·1	59·0	+ 0·6	2	0·50	13	0	4·1	− 1·2	31	0	42	59·4	+0·2	58·5	+0·8	Kew Obs.
a Westminster	*27*	*70*	*3, 4, 7, 9*	*50*	*5th*	*68·5*	*54·6*	*61·2*	+ *2·3*	*2*	*0·38*	*10*	− *2*	*3·8*	− *0·5*	*29*	0	45	•	•	•	•	*Westminster.*
a Greenwich	*155*	*71*	*3rd*	*51*	*5, 7*	*67·7*	*52·9*	*59·9*	+ *0·5*	*2*	*0·13*	*3*	− *8*	*3·5*	− *2·3*	*27*	0	42	•	•	•	•	*Greenwich.*
a Hampstead	*450*	*67*	*7th*	*47*	*5th*	*64·2*	*51·1*	*57·3*	—	*2*	*0·20*	*5*	—	*4·4*	—	*34*	0	32	•	•	•	•	*Hampstead.*
a Camden Square ..	*110*	*72*	*7th*	*49*	*7th*	*69·4*	*52·9*	*60·8*	—	*2*	*0·31*	*8*	—	*4·3*	—	*33*	0	47	•	•	•	•	*Camden Square.*
														3·5	—	26	•	•	•	•	•	•	Hoylake.
7. *a*, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	69	8th	46	5th	62·0	50·7	56·1	+ 1·2	2	1·26	32	+ 9	2·8	—	21	0	43	57·3	•	56·1	•	Aspatria.
p Newton Rigg	559	73	7th	44	6th	64·4	49·1	56·4	+ 2·8	3	1·30	33	+ 15	3·7	− 0·7	28	0	41	58·8	+2·6	56·6	+1·2	Newton Rigg.
p Stonyhurst	375	71	7th	45	6th	64·9	52·9	58·6	+ 3·5	2	0·70	18	− 9	4·0	− 0·5	30	0	42	•	•	•	•	Stonyhurst.
p Blackpool	66	70	8th	49	6th	64·9	54·4	59·4	+ 2·7	4	0·86	22	+ 3	2·8	− 1·8	21	0	40	60·8	•	58·1	•	Blackpool.
a Southport	37	70	8th	48	6th	64·4	54·1	59·0	+ 2·4	3	0·63	16	− 2	3·1	− 1·6	23	0	43	61·1	+2·4	60·5	+1·1	Southport.
a Liverpool (Bidston) ..	188	70	8th	53	3, 6	64·4	55·3	59·6	+ 3·1	2	0·91	23	+ 7	*3·5*	—	*26*	•	•	•	•	•	•	*Liverpool.*
a Hawarden Bridge ..	22	71	8th	48	6th	66·2	53·9	59·8	+ 2·1	3	0·43	11	− 2	*2·4*	—	*18*	0	45	59·4	+2·3	61·0	+2·5	*Manchester (City)*
p Manchester (Whit. Pk.)	125	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	" (Whit. Park).
b, NORTH WALES.																							
p Llandudno	71	71	8th	53	3, 6	63·9	54·0	58·7	+ 1·0	3	0·89	23	+ 8	3·3	—	25	•	•	•	•	•	•	Llandudno
a Holyhead	15	66	8th	53	3rd	61·4	54·7	57·9	+ 0·9	3	1·10	28	+ 11	*2·4*	—	*18*	•	•	•	•	•	•	*Holyhead.*
p Bettws-y-Coed ..	148	75	8th	49	6th	65·9	51·3	58·3	+ 1·3	4	0·62	16	—	3·4	—	23	•	•	56·4	+1·8	55·0	+0·2	Bettws-y-Coed.
														2·9	—	22	•	•	•	•	•	•	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.		Deviation from Normal.	Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														1·9	—	14	*	*	*	*	*	*	Aberystwyth.
a Llangammarch Wells	550	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	Llangammarch.
a Pembroke	149	70	7th	52	3rd	63·3	54·9	58·9	+ 1·5	3	0·39	10	− 7	2·1	− 3·3	16	*	*	*	*	*	*	Pembroke.
p Cardiff	202	70	7th	50	6, 7, 9	64·9	51·1	57·7	− 0·1	2	0·07	2	− 20	*5·9*	—	*45*	0	44	60·4	+1·9	59·2	+0·4	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	71	6, 7	50	5, 7	66·7	53·6	59·8	+ 1·2	2	0·27	7	− 10	*6·6*	*	*50*	0	47	*	*	*	*	*Clifton.*
a Shaftesbury	722	68	6th	47	5th	64·4	51·4	57·6	+ 0·5	2	0·35	9	− 8	*	*	*	*	*	59·7	*	59·8	*	Shaftesbury.
a Arlington	613	71	7th	47	7th	65·0	50·9	57·6	+ 1·3	2	0·21	5	− 23	*	*	*	*	*	*	*	*	*	Arlington.
a *Newquay*	*190*	*66*	*8th*	*48*	*7th*	*62·7*	*53·4*	*57·8*	*− 0·8*	*4*	*0·15*	*4*	*− 11*	4·6	− 1·4	35	*	*	62·2	*	59·9	*	Newquay.
a Cullompton	202	72	6, 7	44	7th	68·0	50·6	58·9	+ 1·4	2	0·11	3	− 13	5·8	+ 0·5	44	0	44	60·5	*	*	*	Cullompton.
a Portland Bill	19	69	7th	54	8th	65·7	55·4	60·3	+ 0·9	2	0·08	2	—	*6·2*	—	*47*	*	*	*	*	*	*	*Weymouth.*
p Plymouth	116	72	9th	50	7th	66·7	54·9	60·5	+ 1·7	2	0·07	2	− 14	5·7	+ 0·3	44	*	*	61·3	+0·9	60·0	*	Plymouth.
a Falmouth	167	69	7th	52	9th	66·0	54·4	59·9	+ 1·4	1·	0·11·	3	− 17	6·6	+ 0·9	50	0	44	63·5	*	61·9	*	Falmouth.
9. IRELAND, N.																							
a Malin Head	208	68	8th	51	3rd	62·4	54·7	58·4	+ 3·1	1	0·04	1	− 18	*4·5*	—	*34*	*	*	*	*	*	*	*Malin Head.*
a, West .. { *a* Blacksod Point ..	?	64	6th	51	9th	61·7	54·9	58·1	+ 2·4	5	0·32	8	− 17	*	*	*	*	*	*	*	*	*	
{ *p* Markree Castle ..	122	73	6th	39	9th	66·7	51·3	58·6	+ 4·0	6	0·27	7	− 16	4·1	+ 0·3	31	0	36	60·2	*	57·3	*	Markree Castle.
{ *a* Birr Castle	175	71	7, 8	49	4th	67·0	53·3	59·8	+ 4·3	4	0·28	7	− 10	*4·7*	+ *0·3*	*35*	*	*	*	*	*	*	*Birr Castle.*
b, East .. { *p* Armagh	196	72	8th	47	9th	66·3	52·1	58·9	+ 4·0	2	0·11	3	− 15	3·2	− 0·8	24	0	39	60·2	+2·7	58·2	+1·1	Armagh.
{ *a* Donaghadee	101	70	8th	51	5th	63·1	53·3	58·0	+ 2·3	5	0·25	6	− 11	*	*	*	0	44	60·0	+2·1	58·4	+0·8	Trinity Coll. Phœnix Park.
10. IRELAND, S.														2·3	− 2·6	17	0	41	*	*	*	*	Dublin City.
p Dublin, City	47	68	6, 7	50	4th	64·6	54·1	59·1	+ 1·8	4	0·40	10	− 6	*	*	*	0	46	*	*	*	*	
a, East .. { *a* Kilkenny	212	72	7, 8	49	4th	67·7	53·4	60·2	+ 4·2	4	0·08	2	− 15	*	*	*	*	*	*	*	*	*	
{ *a* Waterford	20	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	
{ *a* *Seskin, Carrick-on-Suir*	*541*	*72*	*8th*	*47*	*4th*	*66·7*	*51·7*	*58·8*	—	*3*	*0·20*	*5*	—	*3·5*	—	*26*	0	44	*	*	*	*	*Seskin.*
{ *a* Birr Castle	175	71	7, 8	49	4th	67·0	53·3	59·8	+ 4·3	4	0·28	7	− 10	4·7	+ 0·3	35	*	*	*	*	*	*	Birr Castle.
{ *a* Foynes	50	70	6, 8	51	3rd	67·1	54·6	60·6	+ 4·0	5	0·38	10	− 10	*	*	*	*	*	*	*	*	*	
b, West .. { *a* Cahir	198	73	7th	48	8th	68·1	52·0	59·7	+ 3·4	3	0·41	10	—	*	*	*	*	*	*	*	*	*	
{ *a* Killarney	174	77	7th	50	3rd	69·5	55·7	62·3	+ 6·0	4	0·37	9	− 15	*	*	*	*	*	*	*	*	*	
{ *a* Valencia	30	69	7th	50	3rd	63·7	55·6	59·5	+ 2·4	4	0·24	6	− 20	4·2	− 0·4	32	*	*	*	*	*	*	Valencia.
{ *a* Roche's Point	32	70	6th	51·	3rd	65·3	54·7	59·8	+ 2·6	6	0·12	3	− 17	5·4	—	41	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	67	8th	54	3rd	64·1	55·4	59·5	+ 0·1	5	0·26	7	− 8	5·2	− 1·1	40	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	70	7th	56	5, 6	66·6	57·6	61·9	+ 0·5	1	0·16	4	− 11	6·8	+ 0·1	52	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	70	6, 7	55	5–7	66·4	56·9	61·4	+ 0·7	1	0·13	3	− 14	7·2	+ 0·5	55	0	46	63·2	+0·8	63·0	+1·2	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, September 9th, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Above Ground.	Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Gales, force 8 or more. Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	High Winds, forces 6 and 7. Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.		Highest Hourly Wind. Date and Hour, G.M.T.		Highest Gust with Date and Time, G.M.T.		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.			m/s.	d.	h. m.
1. SCOTLAND, E.																		
Dyce	305	75	‡15**	—	—	—	—	12	65	91	0	—	8	4th	16h.	20	4th	17 . 12
Aberdeen*	153	105	{ 37 / 52 } †	—	—	4th	2	27	94	45	0	NW.	11	4th	20h.	19	4th	16 . 6
Edinburgh	485	39	31	—	—	—	—	23	109	36	0	NW.	9	4th	23h.	13	4th	22 . 32
6. SCOTLAND, W.																		
Eskdalemuir	850	50	22	—	—	—	—	23	71	74	0	N.	9	3rd	21h.	16	4th	13 . 35
Paisley	188	81	52	—	—	—	—	8	105	55	0	NW. by N.	8	4th	14h.	15	4th	13 . 57
2. ENGLAND, N.E.																		
Alnwick Castle	340	70	17	—	—	—	—	22	49	97	0	NNW.	9	4th	4h.	15	4th	4 . 13
South Shields	72	61	12	—	—	—	—	40	75	53	0	NNW.	11	5th	1h.	18	5th	2 . 18
Spurn Head	66	40	‡	—	—	4, 5	22	33	75	38	0	—	14	5th	11h.	19	5th	4 . 26
3. ENGLAND, E.																		
Gorleston	52	42	‡	—	—	—	—	75	79	14	0	—	10	3rd	17h.	16	5th	12 . 45
Shoeburyness	103	90	‡	—	—	3, 4	2	79	80	7	0	W. by N.	11	4th	11h.	17	4th	10 . 32
4. MIDLAND COUNTIES.																		
Benson	270	84	‡	—	—	—	—	38	93	37	0	SW.	10	3rd	16h.	16	3rd	15 . 12
5. ENGLAND, S.E.																		
Dover	271	40	‡	—	—	5th	2	90	71	5	0	—	11	5th	13h.	18	5th	13 . 45
Warlingham	642	33	‡	—	—	—	—	10	119	39	0	—	7	3rd	14h.	12	3rd	14 . 8
Brighton	261	53	6	—	—	—	—	45	116	7	0	—	9	3rd	24h.	16	3rd	23 . 4
Kew Observatory ..	82	65	{ 6 / 22 } †	—	—	—	—	17	116	35	0	WNW.	7	4th	9h.	14	{ 3rd / 4th	16 . 55 / 8 . 10
South Kensington ..	123	92	30	—	—	—	—	1	95	72	0	W.	6	4th	8h.	13	3rd	20 . 19
7. ENGLAND, N.W.																		
Carnforth	246	56	23	—	—	—	—	3	24	141	0	W. by S.	7	4th	13h.	12	4th	13 . 6
Southport	80	62	48	4th	1	3 to 5	28	36	77	26	0	NW.	17	4th	2h.	22	4th	2 . 5
Holyhead*	60	40	‡	—	—	3 to 5, 9	36	46	55	31	0	NW. by N.	16	3rd	20h.	22	3rd	15 . 38
8. ENGLAND, S.W.																		
Pendennis Castle§ ..	256	65	24	—	—	3rd	4	60	59	45	0	SSE.	11	3rd	1h.	18	3rd	10 . 28
Plymouth	185	88	2	—	—	—	—	20	75	73	0	—	9	3rd	5h.	13	3rd	11 . 40
Lyme Regis	556	61	‡	—	—	—	—	44	58	68	0	—	11	3rd	13h.	15	3rd	12 . 48
10. IRELAND, S.																		
Quilty	100	40	‡	—	—	3, 4	9	55	58	19	27	—	12	4th	14h.	17	4th	12 . 58
Weaver Pt.	160	30	‡	—	—	4th	3	46	94	25	0	—	12	4th	16h.	18	4th	15 . 33
11. ENGLISH CHANNEL.																		
Scilly*	159	{ 32 / 19 }	‡	—	—	3 to 5	20	46	42	60	0	NW.	14	4th	20h.	20	3rd	2 . 28

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

** Above tops of trees.

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory.

† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

THIRTY-SIXTH WEEK—September 3rd to September 9th, 1916.

DISTRICTS, (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
			Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	71	39	89·4	81·9	85·5	+ 0·7	88	+ 9	0	0	4	− 1	0·33	8	− 17	4·0	+0·4	30	1020
Eastern.																			
1. SCOTLAND, EAST ...	74	35	90·8	81·7	86·0	+ 0·7	94	+ 8	0	0	2	− 2	0·53	13	0	4·0	−0·5	29	1020
2. ENGLAND, N.E.	74	40	91·3	83·3	87·2	+ 0·9	109	+ 11	0	0	3	0	0·98	25	+ 10	3·9	−1·0	29	1020
3. ENGLAND, EAST ...	71	40	91·2	83·9	87·4	+ 0·1	111	+ 1	0	0	3	0	0·42	11	− 1	3·9	−1·4	29	1019
4. MIDLAND COUNTIES ...	72	42	91·8	83·2	87·3	+ 0·7	111	+ 9	0	0	2	− 1	0·48	12	− 1	4·1	−0·6	31	1020
5. ENGLAND, S.E.	71	40	92·1	84·2	87·9	0·0	118	0	0	0	2	− 1	0·30	8	− 6	5·2	−0·3	40	1019
Western.																			
6. SCOTLAND, WEST ...	72	45	90·5	83·8	86·9	+ 1·2	106	+ 16	0	0	3	0	0·41	10	− 14	4·1	−0·6	31	1021
7. ENGLAND, N.W.	75	44	90·9	84·6	87·6	+ 1·1	114	+ 14	0	0	3	0	0·88	23	+ 5	3·3	−1·3	25	1021
8. ENGLAND, S.W.	72	44	91·7	84·7	88·0	+ 0·8	119	+ 11	0	0	2	− 2	0·18	5	− 13	4·5	−0·8	34	1021
9. IRELAND, NORTH ...	73	39	91·1	84·8	87·8	+ 1·9	116	+ 23	0	0	4	− 1	0·21	5	− 15	3·7	−0·4	27	1022
10. IRELAND, SOUTH ...	77	48	92·2	85·3	88·6	+ 2·0	127	+ 26	0	0	4	0	0·29	7	− 11	4·2	−0·5	31	1023
11. ENGLISH CHANNEL ...	70	54	91·7	86·7	89·1	+ 0·5	132	+ 5	0	0	2	− 1	0·18	5	− 9	6·4	0·0	49	1022

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 1 Week, September 3rd to September 9th, 1916.

0. SCOTLAND, NORTH ...	71	39	89·4	81·9	85·5	+ 0·7	88	+ 9	0	0	4	− 1	0·33	8	− 17	4·0	+0·4	30	1020
Eastern.																			
1. SCOTLAND, EAST ...	74	35	90·8	81·7	86·0	+ 0·7	94	+ 8	0	0	2	− 2	0·53	13	0	4·0	−0·5	29	1020
2. ENGLAND, N.E.	74	40	91·3	83·3	87·2	+ 0·9	109	+ 11	0	0	3	0	0·98	25	+ 10	3·9	−1·0	29	1020
3. ENGLAND, EAST ...	71	40	91·2	83·9	87·4	+ 0·1	111	+ 1	0	0	3	0	0·42	11	− 1	3·9	−1·4	29	1019
4. MIDLAND COUNTIES ...	72	42	91·8	83·2	87·3	+ 0·7	111	+ 9	0	0	2	− 1	0·48	12	− 1	4·1	−0·6	31	1020
5. ENGLAND, S.E.	71	40	92·1	84·2	87·9	0·0	118	0	0	0	2	− 1	0·30	8	− 6	5·2	−0·3	40	1019
Western.																			
6. SCOTLAND, WEST ...	72	45	90·5	83·8	86·9	+ 1·2	106	+ 16	0	0	3	0	0·41	10	− 14	4·1	−0·6	31	1021
7. ENGLAND, N.W.	75	44	90·9	84·6	87·6	+ 1·1	114	+ 14	0	0	3	0	0·88	23	+ 5	3·3	−1·3	25	1021
8. ENGLAND, S.W.	72	44	91·7	84·7	88·0	+ 0·8	119	+ 11	0	0	2	− 2	0·18	5	− 13	4·5	−0·8	34	1021
9. IRELAND, NORTH ...	73	39	91·1	84·8	87·8	+ 1·9	116	+ 23	0	0	4	− 1	0·21	5	− 15	3·7	−0·4	27	1022
10. IRELAND, SOUTH ...	77	48	92·2	85·3	88·6	+ 2·0	127	+ 26	0	0	4	0	0·29	7	− 11	4·2	−0·5	31	1023
11. ENGLISH CHANNEL ...	70	54	91·7	86·7	89·1	+ 0·5	132	+ 5	0	0	2	− 1	0·18	5	− 9	6·4	0·0	49	1022

THE YEAR.—Aggregates, &c., for the Period of 36 Weeks, January 2nd to September 9th, 1916.

0. SCOTLAND, NORTH ...	81	20	84·0	78·2	81·0	+ 0·1	1582	− 51	454	−103	170	+ 5	34·36	868	+ 45	3·0	−0·6	22	1010
Eastern.																			
1. SCOTLAND, EAST ...	82	7	84·8	77·6	81·0	− 0·2	1709	−147	585	− 35	152	+15	28·12	715	+205	3·5	−0·8	26	1011
2. ENGLAND, N.E.	84	20	86·0	78·9	82·3	+ 0·4	2117	+ 69	379	− 96	134	+11	19·20	489	+ 79	3·9	−0·7	29	1012
3. ENGLAND EAST ...	83	24	86·8	79·4	82·9	+ 0·3	2347	− 23	353	−168	135	+16	19·19	486	+ 98	4·2	−0·8	32	1013
4. MIDLAND COUNTIES ...	87	21	87·0	78·8	82·7	+ 0·2	2324	− 14	405	−128	129	+11	19·56	499	+ 60	3·9	−0·6	30	1013
5. ENGLAND, S.E.	86	15	87·3	79·8	83·4	+ 0·1	2512	− 25	294	− 87	128	+15	19·60	498	+ 76	4·7	−0·4	36	1014
Western.																			
6. SCOTLAND, WEST ...	83	17	85·6	78·9	82·1	+ 0·1	2017	+ 24	365	− 60	151	+ 8	28·71	733	− 23	4·3	−0·1	32	1012
7. ENGLAND N.W.	83	8	86·0	79·7	82·7	+ 0·2	2193	+ 26	310	− 76	136	+ 5	23·00	585	+ 28	4·1	−0·4	31	1013
8. ENGLAND, S.W.	84	17	86·9	80·0	83·1	0·0	2376	− 24	279	− 22	136	+ 7	25·61	657	+ 61	4·8	−0·2	36	1014
9. IRELAND NORTH ...	81	18	85·6	79·2	82·2	− 0·1	2032	− 48	334	− 11	164	+ 7	24·80	635	+ 6	3·8	−0·3	29	1012
10. IRELAND, SOUTH ...	85	20	86·9	80·0	83·3	+ 0·1	2413	+ 26	244	− 15	169	+30	25·27	637	− 21	4·5	0·0	34	1014
11. ENGLISH CHANNEL ...	80	30	87·2	81·7	84·3	0·0	2720	+ 7	85	− 24	133	− 3	20·06	507	+ 21	5·6	−0·4	43	1015
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., September 14th, 1916.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 145

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

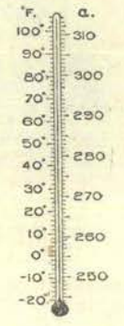
PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) No. 37. SUNDAY, SEPTEMBER 10TH, TO SATURDAY, SEPTEMBER 16TH, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE THIRTY-SEVENTH WEEK OF 1916.

The general character of the weather in England was dry and dull, while in Ireland there was much cloud, with rain on most days. In Scotland, although several days were more or less rainy, a moderate amount of sunshine was recorded. Early in the week temperature remained below 289a. in most parts of the kingdom, but by Tuesday or Wednesday it reached a maximum of 294a. or a little higher in Scotland East, the Midland Counties, and England South-West and South-East, as well as in the English Channel. Later it became low again, and the maximum readings in some parts of the Midland Counties, Scotland and Ireland on Thursday were below 286a. The lowest of the minimum readings were recorded during the latter part of the week, and were low for the time of year. In Scotland East (at West Linton on the 16th) the thermometer fell to 273a., in England South-East to 273·5a., and in several other districts to 274a. or 275a. Frost occurred on the grass in various localities, the lowest readings being 269a. at Glasgow and 269·7a. at West Linton and Hampstead. For the week as a whole the warmth was deficient in Scotland North and England East, moderate elsewhere. The total rainfall was moderate in Scotland and northern Ireland, slight in all other districts. Most of the falls were slight, and in isolated parts of England there was no measurable amount. According to newspaper reports snow fell on many parts of the hill districts of Scotland during the early morning of the 15th. Bright sunshine was abundant in Scotland East and moderate in Scotland West and England North-East, but very scanty in England South-West, and scanty in all other parts of the kingdom. In Scotland East the mean per day was 5·5 hours, whence it decreased to about 2·9 hours in Scotland North and Ireland North. The brightest station was Barrugerry, with 7·4 hours per day, and the dullest Deerness, Bettws-y-Coed and Llandudno, with 1·9 hour. The temperature of the sea surface water was above the average except at Eastbourne the greatest departure being 2·7a. at Cleggan.



WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.
		m/s		m/s		m/s		m/s		m/s		m/s		m/s		m/s
South	3	2·6	4	2·5	2	0·7	2	0·5	1	2·2	0	—	1	2·9	1	1·8
North	3	5·1	2	2·7	5	2·9	5	1·6	6	4·8	7	4·0	4	2·4	6	2·5
West	7	5·8	7	5·3	6	3·2	5	2·1	5	6·0	4	3·0	7	7·8	5	3·2
East	¼	2·9	0	—	1	4·8	2	0·9	1	1·8	2	2·4	¼	1·9	1	1·2
Calm	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c is printed on a separate sheet. *See below*, Note (1).		DISTRICTS OF THE BRITISH ISLES.												
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with normal for the time of year ...	Warmth ...	Deficient	Moderate	Moderate	Deficient	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Moderate	Moderate	Light	Light	Light	Light	Moderate	Light	Light	Moderate	Light	Light
	Sunshine ...	Scanty	Abundant	Moderate	Scanty	Scanty	Scanty	Moderate	Scanty	Very scanty	Scanty	Scanty	Scanty

II.—THE AUTUMN SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

AUTUMN. 2 weeks from Sept. 3rd, 1916.	Warmth ...	1, 0, 1	1, 1, 0	1, 1, 0	0, 1, 1	1, 1, 0	0, 2, 0	1, 1, 0	1, 1, 0	1, 0, 0	1, 1, 0	1, 1, 0	0, 2, 0
	Rainfall ...	0, 1, 1	0, 2, 0	1, 0, 1	0, 1, 1	0, 1, 1	0, 0, 2	0, 1, 1	0, 1, 1	0, 0, 2	0, 1, 1	0, 0, 2	0, 1, 1
	Sunshine ...	1, 0, 1	1, 1, 0	0, 1, 1	0, 0, 2	0, 1, 1	0, 1, 1	0, 2, 0	0, 0, 2	0, 0, 2	0, 1, 1	0, 1, 1	0, 1, 1

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.) and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(9187—19.) Wt. 79a—736. 450. 9/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration	Grass Min.		Earth 1 ft.		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.								Ground Frosts	Lowest Reading.	Mean.	Deviation from Average.	Mean.	Deviation from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.																						
p Baltasound	*31*	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*Baltasound.*
a, Islands .. *a* Lerwick ..	54	57	10, 11	40	14, 16	53·1	45·3	49·0	- 1·8	6	0·63	16	—	1·9	- 1·8	15	*	*	*	*	*	*	Deerness.
a Stornoway ..	51	59	10, 11	42	14th	56·4	47·6	51·8	- 0·2	7	1·06	27	+ 1	3·0	- 0·9	23	*	*	*	*	*	*	Stornoway.
a Castlebay, Barra Isd.	*37*	*58*	10-12, 16	*43*	*14th*	*57·3*	*48·9*	*52·9*	*- 0·3*	7	*0·94*	*24*	—	*3·0*	—	*23*	*	*	*	*	*	*	*Castlebay.*
a Wick ..	81	61	10, 12	40	14th	55·7	45·9	50·6	- 1·5	7	0·71	18	+ 3	*	*	*	*	*	*	*	*	*	
p Strathpeffer ..	200	—	—	—	—	—	—	—	—	—	—	—	—	○	○	○	*	*	*	*	*	*	Strathpeffer.
b, Mainland. *p* Glencarron ..	500	58	10–12	37	14th	55·0	44·4	49·5	- 1·6	7	1·82	46	- 3	*	*	*	*	*	*	*	*	*	
p Fort Augustus ..	68	64	12th	38	10, 14	58·9	44·1	51·1	- 1·8	5	0·40	10	- 13	3·6	+ 0·8	28	*	*	*	*	*	*	Fort Augustus.
p Fort William ..	171	67	12th	38	10th	60·1	45·6	52·5	- 0·9	6	0·74	19	- 23	*	*	*	*	*	*	*	*	*	
1. SCOTLAND, E.																						
p Gordon Castle ..	101	67	12th	39	14th	59·4	45·0	51·9	- 1·6	5	0·45	11	- 4	4·1	—	32	0	31	56·0	+1·7	55·2	+0·5	Crathes.
a Nairn ..	82	64	12th	38	14, 15	59·0	44·3	51·3	- 1·8	5	0·17	4	- 9	*3·6*	—	*28*	*	*	*	*	*	*	*Gordon Castle.*
a Aberdeen ..	48	70	12th	40	14th	59·6	46·3	52·6	- 0·6	5	0·35	9	- 5	3·8	—	29	*	*	*	*	*	*	Nairn.
a Balmoral ..	930	65	12th	34	14th	57·1	42·4	49·4	- 0·5	3	0·24	6	- 11	5·0	+ 0·8	38	*	*	*	*	53·7	+0·9	Aberdeen.
p Crieff ..	432	69	12th	36	14th	63·3	42·7	52·5	- 1·4	4	0·14	4	- 15	7·4	—	57	*	*	*	*	*	*	Balmoral.
																							Balruddery.
a Leith ..	18	67	12th	42	14, 16	61·9	46·7	53·9	- 1·1	2	0·12	3	- 8	*	*	*	*	*	*	*	*	*	
a West Linton ..	769	62	10th	32	16th	58·4	40·7	49·1	- 1·5	4	0·68	17	—	*5·6*	—	*43*	3	26	*	*	*	*	*West Linton.*
p Marchmont ..	498	67	12th	37	14th	60·9	43·4	51·7	- 0·8	3	0·17	4	- 12	6·0	+ 2·0	47	0	33	*	*	*	*	Marchmont.
a Edinburgh	*441*	*65*	*12th*	*39*	*14th*	*59·7*	*46·4*	*52·7*	—	*3*	*0·18*	*5*	—	6·7	—	52	0	34	*	*	*	*	Edinburgh.
6. *a*, SCOTLAND, W.																						
a Poltalloch ..	132	60	10, 12, 13	—	—	57·9	—	—	—	6	1·42	36	+ 7	*	*	*	*	*	*	*	*	*	
p Glasgow Observatory	180	63	12th	39	14th	58·0	47·1	52·8	- 0·6	4	0·19	5	- 15	5·3	+ 1·8	41	1	25	*	*	*	*	Glasgow.
p Rothesay ..	170	63	10th	39	14th	58·1	47·0	52·3	- 1·9	7	0·56	14	- 12	*4·8*	—	*37*	0	34	56·9	*	58·0	+2·1	*Rothesay.*
a Kilmarnock ..	90	—	—	36	14, 16	—	45·1	—	—	5	0·61	15	—	*5·1*	—	*40*	*	*	55·3	*	55·7	*	*Kilmarnock.*
a Colmonell ..	170	64	10th	40	10th	59·6	48·0	53·5	- 1·2	5	0·41	11	- 13	*	*	*	0	38	*	*	*	*	
a Dumfries ..	160	65	10th	36	14th	60·0	45·7	52·5	- 2·4	3	0·15	4	- 14	*6·0*	—	*47*	1	28	57·6	*	58·9	*	*Dumfries.*
Eskdalemuir	*799*	*62*	*10, 12*	*32*	*16th*	*58·4*	*40·4*	*49·0*	—	*5*	*0·28*	*7*	—	*5·4*	—	*42*	*	*	*	*	*	*	*Eskdalemuir.*
p Cally, Gatehouse	120	68	10th	35	14th	62·7	43·4	52·6	- 0·4	5	0·31	8	- 16	*	*	*	*	*	*	*	*	*	
b. I. OF MAN. *p* Douglas ..	277	62	10th	44	14th	59·0	49·7	54·1	- 0·3	7	0·26	7	- 16	3·6	- 1·3	28	0	40	*	*	*	*	Douglas.
2. ENGLAND, N.E.																						
a Alnwick Castle ..	210	69	12th	37	10th	62·0	45·3	53·3	- 0·3	2	0·04	1	- 13	6·9	—	53	0	34	53·4	+0·9	55·1	+1·8	Cockle Park.
a Tynemouth ..	71	67	12th	40	14th	59·9	47·4	53·4	- 1·2	2	0·08	2	- 9	*	*	*	*	*	*	*	*	*	Tynemouth
p Durham ..	336	69	12th	36	14th	62·4	45·6	53·6	- 0·8	2	0·11	3	- 8	5·6	+ 1·6	43	0	32	*	*	*	*	Durham.
a North .. *p* Rounton ..	249	67	12th	38	14th	59·9	44·0	51·6	- 2·4	2	0·12	3	- 8	*	*	*	0	32	56·8	*	*	*	Rounton.
a West Witton	*605*	*66*	*12th*	*38*	*14th*	*61·0*	*46·4*	*53·4*	—	*1*	*0·02*	*1*	—	*	*	*	0	34	56·1	*	54·7	*	*West Witton.*
p Scarborough† ..	100	65	13th	41	14th	60·1	49·0	54·3	- 1·3	1	0·13	3	- 9	3·2	—	25	*	*	*	*	55·0	*	Scarborough.
p York ..	56	68	12th	42	14th	61·4	48·9	54·9	- 0·9	3	0·14	4	- 7	4·1	0·0	32	*	*	58·3	+1·9	58 0	+1·8	York.
a Spurn Head ..	26	62	12, 13	44	14, 15	59·1	49·4	54·0	- 2·8	2	0·09	2	- 7	*3·1*	—	*24*	*	*	*	*	*	*	*Spurn Head.*
b, South .. *a* Lincoln ..	58	67	12, 14	41	15th	62·8	49·1	55·6	- 0·8	2	0·09	2	- 9	*	*	*	*	*	57·7	+1·1	58·4	+1·8	Lincoln.
a Fulbeck ..	180	65	12th	38	15th	60·3	48·0	53·9	- 2·5	4	0·11	3	- 8	3·5	—	27	0	35	58·4	0·0	57·3	-0·3	Rauceby.
														3·8	—	29	*	*	*	*	*	*	Skegness.
3. ENGLAND, E.																						
p Cromer ..	196	63	13th	41	15th	59·6	48·6	53·8	- 2·7	3	0·14	4	—	3·1	—	24	*	*	*	*	*	*	Cromer.
p Little Massingham ..	280	63	13th	37	15th	59·3	46·1	52·4	- 3·9	4	0·05	1	- 13	2·8	- 2·0	22	0	36	*	*	*	*	Lit. Massingham.
a, North .. *a* Yarmouth ..	13	67	13th	39	15th	61·3	48·0	54·3	- 2·7	3	0·39	10	- 2	2·9	—	23	○	*	58·7	-0·5	58·0	-2·0	Yarmouth.
a Norwich ..	93	65	13th	39	15th	60·3	49·7	54·8	- 2·2	4	0·27	7	—	*3·4*	—	*27*	0	35	58·6	*	*	*	*Norwich.*
a Geldeston ..	37	68	13th	36	15th	62·1	47·4	54·4	- 2·2	4	0·15	4	- 8	3·5	- 1·8	28	*	*	*	*	*	*	Geldeston.
p Cambridge ..	41	67	13th	37	15th	62·4	48·9	55·3	- 2·0	1	0·01	0	- 11	3·0	- 2·1	24	0	32	58·7	+0·6	58·7	0·0	Cambridge.
a Clacton-on-Sea ..	54	69	13th	40	15th	62·1	48·6	55·0	- 2·5	2	0·05	1	—	3·1	—	24	0	35	58·9	+0·3	59·3	+0·2	Clacton.
b, South .. *a* Rothamsted ..	424	67	13th	39	15th	60·7	48·6	54·4	- 1·4	0	0·00	0	- 13	3·0	- 2·0	24	0	31	57·0	*	*	*	Rothamsted.
p Tottenham ..	51	69	13th	42	15th	62·9	51·9	57·1	- 0·5	1	0·01	0	—	3·1	—	24	0	39	*	*	60·5	0·0	Tottenham.
4. MIDLAND COUNTIES.																						
a North .. *a* Harrogate ..	479	64	12th	38	14th	59·3	46·9	52·8	- 1·3	4	0·04	1	- 14	4·6	—	36	0	35	55·7	+1·0	56·4	+2·2	Harrogate.
p Buxton ..	*987*	*58*	*12, 16*	*39*	*15th*	*56·1*	*45·9*	*50·8*	*- 1·8*	*6*	*0·74*	*19*	*- 3*	*3·0*	—	*23*	0	35	55·0	+0·7	56·1	+1·7	*Buxton.*
														4·0	—	31	0	37	56·6	+1·0	56·1	-0·2	Sheffield.
a Bawtry ..	65	66	12th	42	14, 15	60·4	48·7	54·3	- 1·2	2	0·06	2	- 8	3·6	- 0·5	28	0	34	57·1	*	56·6	*	Worksop.
a Nottingham ..	82	65	12th	41	15th	60·3	48·6	54·2	- 1·7	4	0·15	4	- 8	3·2	—	20	0	36	57·5	+1·9	57·9	+0·5	Nottingham.
b, East .. *p* Birmingham, Edgbsn.	535	65	12th	43	15th	60·4	49·6	54·7	- 1·1	4	0·13	3	- 9	2·6	—	20	0	36	54·4	+0·8	53·9	+0·4	Birmingham.
a Raunds ..	203	68	13th	38	15th	62·4	48·4	55·1	- 0·9	1	0·03	1	—	*3·1*	—	*24*	2	29	60·2	*	58·0	*	*Raunds.*
p Oxford ..	208	69	12th	39	15th	63·4	49·7	56·2	- 0·5	2	0·05	1	- 10	3·4	- 1·6	24	0	34	*	*	*	*	Oxford
a Cheadle ..	646	61	16th	40	14, 15	57·6	48·1	52·6	- 1·6	3	0·15	4	- 12	*	*	*	0	36	*	*	*	*	Cheadle.
c, West .. *p* Shrewsbury ..	191	68	12th	39	14, 15	62·6	47·7	54·8	- 1·4	3	0·08	2	—	○	*	*	0	37	*	*	*	*	Shrewsbury.
a Hereford§ ..	291	70	12th	38	15, 16	64·4	48·4	56·0	- 0·1	0	0·01	0·2	- 12	*3·8*	—	*30*	3	28	59·2	*	59·7	*	*Malvern.*§
a Bath ..	66	72	12th	38	15th	65·3	50·9	57·8	+ 0·7	0	0·00	0	- 14	4·2	—	35	*	*	60·9	+0·9	60·3	-0·1	Bath.
5. ENGLAND, S.E.																						
a Marlborough ..	424	70	12th	33	15th	64·0	47·3	55·3	+ 0·5	3	0·06	1	- 13	4·1	—	32	0	35	61 3	+1·9	60·6	+0·8	Worthing.
a Margate ..	53	68	13th	42	15th	62·1	52·6	57·1	- 1·6	2	0·04	1	- 11	3·9	- 0·6	31	1	30	58·2	*	57·5	*	Marlborough.
a Wisley, Surrey ..	150	69	13th	36	15th	62·9	49·7	56·0	- 1·6	1	0·01	0·3	—	3·8	- 1·3	30	0	39	61·2	+3·0	61·8	+3·5	Margate.
p Salisbury (Wilton) ..	180	70	16th	34	15th	65·3	48·0	56·2	- 0·6	0	0·00	0	- 13	3·3	—	26	1	28	59·1	+1·0	58·4	-0·5	Wisley.
a Tunbridge Wells ..	354	70	13th	34	15th	62·9	49·6	55·9	- 0·7	1	0·02	1	- 13	*	*	*	0	32	60·1	*	*	*	Salisbury.
														3 3	- 2·1	26	1	26	59·6	+1·0	59·4	*	Tunbridge Wells.
a Dungeness ..	21	70	13th	37	15th	64·6	49·4	56·6	- 2·1	2	0·02	1	- 11	*	*	*	*	*	*	*	*	*	Littlestone.
p Hastings ..	178	71	13th	41	15th	63·1	51·7	57·1	- 1·4	1	0·02	1	- 14	4·2	- 1·5	33	0	35	60·9	*	60·7	*	Hastings.
p Southampton ..	64	70	13th	37	15th	65·1	51·6	58·0	- 0·7	0	0·00	0	- 14	4·6	- 0·9	36	1	30	*	*	*	*	Southampton.
a Ventnor ..	59	73	13th	43	15th	65·3	53·3	59·0	- 0·7	2	0·02	0·4	- 15	4·1	- 1 8	32	*	*	*	*	*	*	Ventnor.
LONDON. *p* Kew Observatory ..	18	69	13th	39	15th	62·1	50·5	56·0	- 0·8	0	0·01	0·2	- 12	3 7	- 1·2	29	0	32	58·6	+0·8	58·1	+0·4	Kew Obs.
a Westminster ..	*27*	*72*	*13th*	*39*	*15th*	*64·4*	*50·7*	*57·2*	*- 0·4*	*1*	*0·01*	*0·2*	*- 11*	*3·4*	*- 0·8*	*27*	0	34	*	*	*	*	*Westminster.*
a Greenwich ..	*155*	*71*	*13th*	*37*	*15th*	*63·9*	*50·9*	*57·1*	*- 1·1*	*4*	*0·07*	*2*	*- 9*	*3·2*	*- 2·2*	*25*	1	28	*	*	*	*	*Greenwich.*
a Hampstead ..	*450*	*70*	*13th*	*36*	*15th*	*61·3*	*48·1*	*54·4*	—	*3*	*0·03*	*1*	—	*3·1*	—	*24*	2	26	*	*	*	*	*Hampstead.*
a Camden Square ..	*110*	*72*	*13th*	*38*	*15th*	*65·3*	*50·6*	*57·6*	—	*2*	*0·03*	*1*	—	*3·3*	—	*26*	0	36	*	*	*	*	*Camden Square.*
7. *a*, ENGLAND, N.W.																						
p Aspatria (Mealsgate)	487	62	10th	34	14th	58·1	44·6	51·0	- 2·9	3	0·22	6	- 16	2·9	—	22	*	*	*	*	*	*	Hoylake.
p Newton Rigg ..	559	63	12th	36	14th	60·0	45·1	52·2	- 0·2	4	0·15	4	- 13	4·5	+ 0·3	35	1	30	55·5	*	56·0	*	Aspatria.
p Stonyhurst ..	375	61	12th	42	14th	58·1	48·0	52·8	- 1·7	5	0·76	19	- 6	2·9	- 1·4	22	0	37	57·7	+2·1	56·3	+1·5	Newton Rigg.
p Blackpool ..	66	63	12th	44	14th	59·4	51·0	55·0	- 0·8	5	0·16	4	- 15	3·2	- 1·2	25	0	37	*	*	*	*	Stonyhurst.
a Southport ..	37	63	12th	44	14th	58·9	51·1	54·8	- 0·8	3	0·19	5	- 13	3·6	- 0·9	28	0	37	59·3	*	58·0	*	Blackpool.
a Liverpool (Eidson) ..	188	62	12th	46	14, 15	58·9	51·4	55·0	- 0·6	5	0·29	7	- 9	*2·9*	—	*22*	*	*	58·8	+1·4	60·0	+1·4	Southport.
a Hawarden Bridge ..	22	65	12th	48	14th	60·6	53·1	56·7	- 0·1	5	0·30	8	- 4	*2·3*	—	*18*	0	38	*	*	*	*	*Liverpool.*
p Manchester (Whit. Pk.)	125	63	12, 16	43	14th	59·4	49·7	54·3	- 1·8	5	0·42	11	- 5	2·2	- *1·3*	*17*	*	*	58·0	+1·8	60·4	+2·8	*Manchester (City)*
																			*	*	*	*	*„ (Whit. Park)*
b. NORTH WALES.																						
p Llandudno ..	71	62	12, 13	49	14th	60·1	53·3	56·5	- 0·3	4	0·13	3	- 11	1·9	- 2·5	15	*	*	*	*	*	*	Llandudno.
a Holyhead ..	15	65	12th	50	14, 15	60·9	53·1	56·8	+ 0·3	2	0·03	1	- 16	*3·6*	—	*28*	*	*	*	*	*	*	*Holyhead.*
p Bettws-y-Coed ..	148	66	12th	44	14th	60·9	50·6	55·5	- 0·6	7	0·12	3	—	1·9	—	15	*	*	55·7	+2·0	55·0	+0·7	Bettws-y-Coed.
														2·5	—	19	*	*	*	*	*	*	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine. Hours per Day.			Ground Temperature.						Stations reporting Sunshine and Temperature on the Grass and in the Ground.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.								Ground Frosts.	Lowest Reading.	Mean.	Deviation from average	Mean.	Deviation from average	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES																						
a Llangammarch Wells	550	—	—	—	—	—	—	—	—	—	—	—	—									Aberystwyth.
a Pembroke	149	63	12th	46	15th	60·6	52·7	56·5	− 0·3	2	0·03	1	− 16	3·2	− 1·9	25	*	*	*	*	*	*	Llangammarch.
p Cardiff	202	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	Pembroke.
b, ENGLAND, S.W.																							*Cardiff.*
a Clifton	229	71	12th	42	15th	63·6	52·0	57·5	− 0·1	0	0·00	0	− 16	*4·4*	*	*35*	0	41	*	*	*	*	*Clifton.*
a Shaftesbury	722	69	13th	38	15th	62·4	48·6	55·2	− 0·8	0	0·00	0	− 16	*	*	*	*	*	59·0	*	59·4	*	Shaftesbury.
a Arlington	613	68	13th	37	15th	61·4	50·0	55·4	0·0	3	0·26	7	− 20	*	*	*	*	*	*	*	*	*	Arlington.
a Newquay	*190*	*66*	*10th*	*38*	*15th*	*61·7*	*52·4*	*56·8*	− *1·2*	*2*	*0·10*	*3*	− *14*	2·4	− 3·0	19	*	*	61·5	*	59·8	*	Newquay.
a Cullompton	202	72	12th	34	15th	65·3	49·1	56·8	+ 0·4	2	0·03	1	− 14	3·4	− 1·6	27	1	30	60·1	*	*	*	Cullompton.
a Portland Bill	19	67	12, 13	45	15th	63·4	54·0	58·5	− 0·2	0	0·00	0	—	*5·0*	—	*39*	*	*	*	*	*	*	*Weymouth.*
p Plymouth	116	69	13th	40	15th	64·1	53·1	58·3	+ 0·5	1	0·02	0·4	− 16	3·5	− 1·9	28	*	*	60·7	+1·7	59·8	*	Plymouth.
a Falmouth	167	68	13th	40	15th	63·4	50·6	56·7	− 1·0	1	0·05	1	− 19	4·3	− 1·3	34	1	29	62·8	*	61·3	*	Falmouth.
9. IRELAND, N.																							
a Malin Head	208	60	12th	46	14th	57·9	51·6	54·6	− 0·2	7	0·52	13	− 5	*3·6*	—	*28*	*	*	*	*	*	*	*Malin Head.*
a, West .. *a* Blacksod Point ..	?	60	12th	47	14, 15	58·3	50·9	54·4	− 0·5	6	0·61	15	− 10	*	*	*	*	*	*	*	*	*	*
p Markree Castle ..	122	62	10–12	35	10th	60·4	47·9	53·9	0·0	7	0·88	22	0	2·7	− 1·0	21	0	34	58·6	*	57·3	*	Markree Castle.
a Birr Castle	175	65	12th	40	10, 11	62·9	46·7	54·4	− 0·2	2	0·12	3	− 12	*3·4*	− *0·9*	*27*	*	*	*	*	*	*	*Birr Castle.*
b, East .. *p* Armagh	196	63	10–12, 16	40	10, 14	62·0	48·3	54·8	+ 0·7	3	0·09	2	− 15	3·1	− 0·8	24	0	33	59·3	+2·6	58·1	+1·6	Armagh.
a Donaghadee	101	64	12th	47	14, 15	59·6	51·1	55·2	+ 0·1	4	0·25	6	− 11	*	*	*	*	*	*	*	*	*	*
10. IRELAND, S.																	0	36	59·2	+2·1	58·1	+1·1	Trinity Coll.
p Dublin, City	47	66	12th	46	10, 14, 15	62·6	50·7	56·4	+ 0·2	2	0·02	1	− 12	3·7	− 1·1	29	0	36	*	*	*	*	Phœnix Park.
a, East .. *a* Kilkenny	212	69	12th	40	15th	64·1	49·1	56·2	+ 1·0	3	0·03	1	− 14	*	*	*	0	41	*	*	*	*	Dublin City.
a Waterford	20	68	12th	43	15th	64·1	50·3	56·9	+ 1·1	2	0·16	4	− 14	*	*	*	*	*	*	*	*	*	*
a Seskin, Carrick-on-Suir	*541*	*69*	*16th*	*44*	*10, 14, 15*	*62·6*	*47·7*	*54·8*	—	*2*	*0·11*	*3*	—	*4·5*	—	*35*	0	34	*	*	*	*	*Seskin.*
a Birr Castle	175	65	12th	40	10, 11	62·9	46·7	54·4	− 0·2	2	0·12	3	− 12	3·4	− 0·9	27	*	*	*	*	*	*	Birr Castle.
a Foynes	50	64	12, 16	48	10, 15	61·4	52·1	56·5	+ 0·7	4	0·56	14	− 4	*	*	*	*	*	*	*	*	*	*
b, West .. *a* Cahir	199	69	10th	45	16th	65·3	49·3	56·9	+ 1·6	2	0·18	5	—	*	*	*	*	*	*	*	*	*	*
a Killarney	174	67	12, 16	44	10th	63·6	49·4	56·2	+ 0·6	4	0·68	17	− 6	*	*	*	*	*	*	*	*	*	*
a Valencia	30	62	10, 11, 16	49	15th	60·7	52·3	56·3	− 0·4	5	0·45	12	− 13	3·9	− 0·5	31	*	*	*	*	*	*	Valencia.
a Roche's Point	32	68	12th	47	15th	64·4	50·6	57·2	+ 0·5	2	0·17	4	− 14	4·7	—	37	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	64	13th	48	15th	61·1	53·6	57·2	− 1·6	3	0·18	5	− 10	4·8	− 1·0	38	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	66	12, 13	43	15th	63·7	54·7	59·0	− 1·7	0	0·00	0	− 16	4·7	− 1·6	37	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	70	13th	46	15th	64·4	55·1	59·5	− 0·5	1	0·03	1	− 17	5·4	− 0·7	43	0	38	61·8	+0·4	62·7	+1·3	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, September 16th, 1916.

District and Station.	Height.			Distribution of Wind.								Extreme Velocities.			
	Above Mean Sea Level.	Above Ground.	Above Building.	Gales, force 8 or more.		High Winds, forces 6 and 7.		Fresh or Moderate Winds, forces 4 and 5.	Light Winds, forces 2 and 3.	Calms and Light Airs, forces 0 and 1.	No Record.	Highest Hourly Wind.			Highest Gust with Date and Time, G.M.T.
				Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Velocity.	Date and Hour, G.M.T.		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.		m/s. d. h. m.
1. SCOTLAND, E.															
Dyce	305	75	‡15**	—	—	—	—	15	80	66	7	—	7	13th 15h.	19 13th 13 . 31
Aberdeen*	153	105	37 †	—	—	13th	5	49	92	22	0	NW. by W.	13	13th 9h.	20 13th 19 . 53
Edinburgh	485	39	31 †	—	—	11th	1	100	52	15	0	S. by W.	11	11th 8h.	17 14th 1 . 34
6. SCOTLAND, W.															
Eskdalemuir	850	50	22	—	—	13, 15	5	54	71	38	0	NW. by W.	13	15th 10h.	20 13th 12 . 8
Paisley	188	81	52	—	—	—	—	44	109	15	0	NW. by N.	9	15th 18h.	19 13th 11 . 37
2. ENGLAND, N.E.															
Alnwick Castle	340	70	17	—	—	—	—	20	92	56	0	NW.	8	13th 9h.	17 13th 9 . 40
South Shields	72	61	12	—	—	12, 13	4	75	80	9	0	WNW.	12	12th 17h.	17 13th 11 . 18
Spurn Head	66	40	‡	—	—	13, 14	23	81	58	6	0	—	13	14th 6h.	18 14th 5 . 55
3. ENGLAND, E.															
Gorleston	52	42	‡‡	—	—	—	—	47	100	17	4	—	8	10th 15h.	14 14th 5 . 58
Shoeburyness	103	90	‡‡	—	—	—	—	36	125	7	0	NW. by N.	8	13th 17h.	14 13th 16 . 57
4. MIDLAND COUNTIES.															
Benson	270	84	‡	—	—	—	—	8	118	42	0	NNW.	7	13th 16h.	13 14th 9 . 59
5. ENGLAND, S.E.															
Dover	271	40	‡‡	—	—	14th	2	49	78	39	0	—	11	14th 13h.	17 14th 12 . 13
Warlingham	642	33	‡‡	—	—	—	—	—	127	41	0	—	4	14th 11h.	10 15th 15 . 50
Brighton	261	53	6	—	—	—	—	11	133	24	0	—	6	13th 13h.	13 13th 16 . 55
Kew Observatory ..	82	65	6 †	—	—	—	—	1	121	46	0	WNW.	6	13th 14h.	11 15th 14 . 45
South Kensington ..	123	92	30 †	—	—	—	—	—	84	84	0	WSW.	4	15th 16h.	9 13th 14 . 1
7. ENGLAND, N.W.															
Carnforth	246	56	23	—	—	—	—	9	85	74	0	WSW.	9	12th 13h.	12 12th 13 . 3
Southport	80	62	48	—	—	11 to 16	67	55	43	3	0	NW.	17	13th 20h.	21 15th 17 . 41
Holyhead*	60	40	‡	—	—	12 to 16	37	100	29	2	0	WNW.	14	15th 9h.	18 14th 7 . 57
8. ENGLAND, S.W.															
Pendennis Castle§ ..	256	65	24	—	—	—	—	61	98	9	0	NW.	10	15th 22h.	14 15th 21 . 50
Plymouth	185	88	2	—	—	—	—	—	127	41	0	—	5	15th 18h.	10 15th 17 . 32
Lyme Regis	556	61	‡	—	—	—	—	29	94	45	0	—	10	13th 12h.	14 13th 11 . 35
10. IRELAND, S.															
Quilty	100	40	‡	—	—	11, 13	21	107	40	0	0	—	13	11th 16h.	17 11th 16 . 10
Weaver Pt.	160	30	‡‡	—	—	—	—	79	86	3	0	—	10	11th 19h.	17 11th 18 . 39
11. ENGLISH CHANNEL.															
Scilly*	150	32 19	‡	—	—	—	—	57	95	16	0	NW.	10	11th 21h.	14 12th 2 . 42

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.
† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

THIRTY-SEVENTH WEEK—September 10th to September 16th, 1916.

DISTRICTS, (See Frontispiece map.)	Temperature of the Air. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Pressure Mean for the Week at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	67	37	86·6	80·5	83·4	− 1·0	62	− 12	0	0	6	+ 2	0·89	23	0	2·8	−0·8	22	1015
Eastern.																			
1. SCOTLAND, EAST ...	70	32	88·6	79·6	83·9	− 0·9	67	− 13	0	− 1	4	+ 1	0·29	7	− 4	5·5	+1·3	42	1016
2. ENGLAND, N.E.	69	36	89·1	81·6	85·1	− 0·7	83	− 9	0	0	2	− 1	0·10	3	− 9	4·5	−0·3	35	1018
3. ENGLAND, EAST ...	69	36	89·2	82·2	85·6	− 1·2	88	− 16	0	0	2	0	0·12	3	− 7	3·1	−2·2	24	1018
4. MIDLAND COUNTIES ...	72	38	89·4	82·3	85·7	− 0·5	90	− 6	0	0	2	0	0·07	2	− 8	3·7	−1·0	29	1020
5. ENGLAND, S.E.	73	33	90·6	83·2	86·7	− 0·7	103	− 9	0	0	1	− 1	0·02	1	− 10	3·9	−1·5	31	1019
Western.																			
6. SCOTLAND, WEST ...	68	35	88·4	81·2	84·7	− 0·4	77	− 8	0	0	5	+ 1	0·49	13	− 7	4·5	−0·1	35	1018
7. ENGLAND, N.W.	66	34	88·3	83·0	85·6	− 0·6	88	− 8	0	0	4	+ 1	0·26	7	− 7	3·1	−1·6	24	1021
8. ENGLAND, S.W.	72	34	90·2	83·7	86·8	0·0	104	0	0	0	1	− 1	0·05	1	− 13	3·2	−2·0	25	1022
9. IRELAND, NORTH ...	65	35	88·7	82·7	85·6	0·0	88	− 1	0	0	5	+ 2	0·41	10	− 5	2·9	−1·1	23	1022
10. IRELAND, SOUTH ...	69	40	90·3	83·1	86·5	+ 0·2	100	+ 3	0	0	3	0	0·26	7	− 8	3·9	−0·8	31	1025
11. ENGLISH CHANNEL ...	70	43	90·3	85·5	87·8	− 0·5	116	− 7	0	0	1	− 2	0·07	2	− 10	5·0	−1·6	39	1023

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 2 Weeks, September 3rd to September 16th, 1916.

0. SCOTLAND, NORTH ...	71	37	88·0	81·2	84·5	− 0·1	150	− 3	0	0	10	+ 1	1·22	31	− 17	3·4	−0·2	26	1018
Eastern.																			
1. SCOTLAND, EAST ...	74	32	89·7	80·7	85·0	− 0·1	161	− 5	0	− 1	6	− 1	0·82	20	− 4	4·7	+0·4	36	1018
2. ENGLAND, N.E.	74	36	90·2	82·5	86·2	+ 0·1	192	+ 2	0	0	5	− 1	1·08	28	+ 1	4·2	−0·6	32	1019
3. ENGLAND, EAST ...	71	36	90·2	83·1	86·5	− 0·6	199	− 15	0	0	5	0	0·54	14	− 8	3·5	−1·8	27	1019
4. MIDLAND COUNTIES ...	72	38	90·6	82·8	86·5	+ 0·1	201	+ 3	0	0	4	− 1	0·55	14	− 9	3·9	−0·8	30	1020
5. ENGLAND, S.E.	73	33	91·4	83·7	87·3	− 0·4	221	− 9	0	0	3	− 2	0·32	9	− 16	4·6	−0·9	35	1019
Western.																			
6. SCOTLAND, WEST ...	72	35	89·5	82·5	85·8	+ 0·4	183	+ 8	0	0	8	+ 1	0·90	23	− 21	4·3	−0·3	33	1020
7. ENGLAND, N.W.	75	34	89·6	83·8	86·6	+ 0·2	202	+ 6	0	0	7	+ 1	1·14	30	− 2	3·2	−1·4	24	1021
8. ENGLAND, S.W.	72	34	91·0	84·2	87·4	+ 0·4	223	+ 11	0	0	3	− 3	0·23	6	− 26	3·8	−1·4	30	1022
9. IRELAND, NORTH ...	73	35	89·9	83·8	86·7	+ 0·9	204	+ 22	0	0	9	+ 1	0·62	15	− 20	3·3	−0·7	25	1022
10. IRELAND, SOUTH ...	77	40	91·3	84·2	87·6	+ 1·1	227	+ 29	0	0	7	0	0·53	14	− 19	4·0	−0·7	31	1024
11. ENGLISH CHANNEL ...	70	43	91·0	86·1	88·5	0·0	248	− 2	0	0	3	− 3	0·25	7	− 19	5·7	−0·8	44	1023

THE YEAR.—Aggregates, &c., for the Period of 37 Weeks, January 2nd to September 16th, 1916.

0. SCOTLAND, NORTH ...	81	20	84·1	78·2	81·1	+ 0·1	1644	− 63	454	−103	176	+ 7	35·19	891	+ 45	3·0	−0·6	22	1010
Eastern.																			
1. SCOTLAND, EAST ...	82	7	84·9	77·7	81·1	− 0·2	1776	−160	585	− 36	156	+16	28·41	722	+201	3·6	−0·7	27	1011
2. ENGLAND, N.E.	84	20	86·1	79·0	82·4	+ 0·4	2200	+ 60	379	− 96	136	+10	19·30	492	+ 70	3·9	−0·7	30	1012
3. ENGLAND EAST ...	83	24	86·8	79·4	83·0	+ 0·3	2435	− 39	353	−168	137	+16	19·31	489	+ 91	4·2	−0·8	31	1013
4. MIDLAND COUNTIES ...	87	21	87·0	78·9	82·8	+ 0·2	2414	− 20	405	−128	131	+11	19·63	501	+ 52	3·9	−0·6	29	1013
5. ENGLAND, S.E.	86	15	87·4	79·9	83·5	+ 0·1	2615	− 34	294	− 87	129	+14	19·62	499	+ 66	4·7	−0·4	36	1014
Western.																			
6. SCOTLAND, WEST ...	83	17	85·7	79·0	82·2	+ 0·1	2094	+ 16	365	− 60	156	+ 9	29·20	746	− 30	4·3	−0·1	32	1012
7. ENGLAND N.W. ...	83	8	86·0	79·8	82·8	+ 0·2	2281	+ 18	310	− 76	140	+ 6	23·26	592	+ 21	4·1	−0·4	31	1013
8. ENGLAND, S.W.	84	17	87·0	80·1	83·2	0·0	2480	− 24	279	− 22	137	+ 6	25·66	658	+ 48	4·7	−0·3	36	1014
9. IRELAND NORTH ...	81	18	85·7	79·3	82·3	− 0·1	2120	− 49	334	− 11	169	+ 9	25·21	645	+ 1	3·8	−0·3	29	1012
10. IRELAND, SOUTH ...	85	20	87·0	80·1	83·4	+ 0·1	2513	+ 29	244	− 15	172	+30	25·51	644	− 29	4·5	0·0	34	1015
11. ENGLISH CHANNEL ...	80	30	87·3	81·8	84·4	0·0	2836	0	85	− 24	134	− 5	20·13	509	+ 11	5·6	−0·4	43	1015
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., September 21st, 1916.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 149

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) No. 38. SUNDAY, SEPTEMBER 17TH, TO SATURDAY, SEPTEMBER 23RD, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE THIRTY-EIGHTH WEEK OF 1916.

This period opened dull and damp, with rain falling practically over the whole of the kingdom, there being numerous records of 12 mm. and upwards on the 17th, up to 22 mm. at Fort William and Poltalloch, 23 mm. at Aberdovey, 24 mm. at Aberystwyth, 29 mm. at Stonyhurst, and 31 mm. at Lancaster. Next day witnessed a marked decrease in the precipitation, there being very few amounts of as much as 10 mm. The remainder of the week was rainless in several localities or produced only slight showers in others. Owing to the irregular distribution of the heaviest falls on the first day the aggregate amounts for the week were also irregular, England South-West returning 56 per cent. of the normal, and Ireland South 75 per cent., while England North-West had 129 per cent., and England East 136 per cent. Temperature was deficient in all districts, the defect from normal ranging from about ½a. over Ireland to 2½a. over the east and south-east of England. The first and last days were relatively mild, with some minima about 285a., and maxima of 292a. and above. On some of the intervening days there were some maxima about 283a., and on the morning of the 21st temperature at Marlborough sank to 273a., at Balmoral to 271½a., and at West Linton to 271a. The duration of bright sunshine was normal over England South-West, elsewhere there was a deficiency, ranging from ½ hour per day in Scotland East, and England North-East and South-East to 2½ hours in Ireland, the record for Ireland North being only 30 per cent. of the normal, and for Ireland South 41 per cent. Thunder was heard at Little Massingham on the 19th. At Oxford solar halos were seen on the 21st, 22nd and 23rd. The temperature of the coastal sea water ranged from 1½a. above the normal off the west of Ireland to 1a. below the normal on the Sussex coast.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.
		m/s		m/s		m/s		m/s		m/s		m/s		m/s		m/s
South	3	4·4	5	4·7	3	1·6	3	1·9	3	4·7	?3	3·2	3	4·1	4	4·3
North	3	5·8	2	2·6	4	2·9	4	2·5	4	7·0	?4	5·4	3	4·3	3	5·0
West	5	3·6	4	3·3	5	2·6	4	2·2	6	3·6	3	5·4	6	5·6	3	3·9
East	2	2·6	2	1·5	2	1·3	2	0·6	¼	2·7	3	1·3	1	1·7	3	2·3
Calm	0	—	0	—	0	—	1	—	0	—	0	—	¼	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c is printed on a separate sheet. *See below*, Note (1).		DISTRICTS OF THE BRITISH ISLES.												
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Moderate	Moderate	Moderate	Deficient
	Rainfall ...	Moderate	Moderate	Moderate	Heavy	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
	Sunshine ...	Moderate	Moderate	Moderate	Scanty	Scanty	Moderate	Scanty	Scanty	Moderate	Very scanty	Very scanty	Scanty

II.—THE AUTUMN SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

AUTUMN. 3 weeks from Sept. 3rd, 1916.	Warmth ...	1, 0, 2	1, 1, 1	1, 1, 1	0, 1, 2	1, 1, 1	0, 2, 1	1, 1, 1	1, 1, 1	1, 2, 0	1, 2 0	1, 2, 0	0, 2, 1
	Rainfall ...	0, 2, 1	0, 3, 0	1, 1, 1	1, 1, 1	0, 2, 1	0, 1, 2	0, 2, 1	0, 2, 1	0, 1, 2	0, 2, 1	0, 1, 2	0, 2, 1
	Sunshine ...	1, 1, 1	1, 2, 0	0, 2, 1	0, 0, 3	0, 1, 2	0, 2, 1	0, 2, 1	0, 0, 3	0, 1, 2	0, 1, 2	0, 1, 2	0, 1, 2

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.) and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1 a. = increment of ⅗° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(9226—19.) Wt. 79a—736. 450. 9/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts	Lowest Reading.	Mean.	Deviation from Average.	Mean.	Deviation from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.	*31*	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	*Baltasound.*
a, Islands.. *p Baltasound*	54	58	23rd	40	21st	52·1	43·3	47·5	− 2·5	5	1·14	29	—	1·5	− 2·1	12	*	*	*	*	*	*	Deerness.
a Lerwick	51	59	23rd	43	20th	54·3	46·6	50·3	− 0·8	6	0·78	20	− 6	1·7	− 2·0	14	*	*	*	*	*	*	Stornoway.
a Stornoway	*37*	*57*	*17th*	*42*	*19th*	*54·7*	*47·6*	*51·0*	− *1·5*	*7*	*0·45*	*12*	—	*0·9*	—	*7*	*	*	*	*	*	*	*Castlebay.*
a Castlebay, Barra Isd.																							
a Wick	81	60	17th	35	21, 22	54·0	41·3	47·4	− 3·9	5	0·50	13	− 2	*	*	*	*	*	*	*	*	*	Strathpeffer.
b, Main- *p* Strathpeffer	200	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	
land. *p* Glencarron	500	64	23rd	38	20th	54·6	44·0	49·1	− 1·1	5	1·26	32	− 19	*	*	*	*	*	*	*	*	*	Fort Augustus.
p Fort Augustus	68	61	23rd	33	20th	55·4	44·1	49·5	− 2·5	3	0·64	16	− 7	0·8	− 1·9	7	*	*	*	*	*	*	
p Fort William	171	59	23rd	36	20th	55·1	45·1	49·9	− 2·7	5	1·25	32	− 11	*	*	*	*	*	*	*	*	*	
1. SCOTLAND, E.														3·1	—	25	1	29	53·3	−0·6	54·4	−0·3	Crathes.
p Gordon Castle	101	65	23rd	41	18th	57·0	45·1	50·8	− 1·8	4	0·42	11	− 4	*1·9*	—	*15*	*	*	*	*	*	*	*Gordon Castle.*
a Nairn	82	65	23rd	40	20th	57·3	43·6	50·1	− 1·8	5	0·40	10	− 3	2·3	—	19	*	*	*	*	*	*	Nairn.
a Aberdeen	46	64	23rd	42	20th	57·0	43·9	50·1	− 2·3	4	0·62	16	+ 1	3·9	− 0·1	32	*	*	*	*	52·8	+0·5	Aberdeen.
a Balmoral	930	59	17th	29	21st	53·0	40·4	46·4	− 2·4	3	0·91	23	+ 6	*	*	*	1	27	*	*	*	*	Balmoral.
p Crieff	432	62	20th	36	20th	57·1	42·4	49·4	− 3·5	4	0·50	13	− 6	3·0	—	24	*	*	*	*	*	*	Balruddery.
a Leith	18	62	17th	40	20th	58·0	44·7	51·0	− 3·0	2	0·16	4	− 6	*	*	*	*	*	*	*	*	*	
a West Linton	769	57	17th	28	21st	54·0	39·9	46·6	− 2·8	4	0·80	20	—	*2·5*	—	*20*	2	23	*	*	*	*	*West Linton.*
p Marchmont	498	61	23rd	38	21st	56·3	43·0	49·3	− 2·3	4	0·94	24	+ 8	4·4	+ 0·6	36	1	30	*	*	*	*	Marchmont.
a Edinburgh	*441*	*60*	*17, 23*	*40*	*20, 21*	*56·6*	*45·1*	*50·6*	—	*3*	*0·13*	*3*	—	3·6	—	29	0	32	*	*	*	*	Edinburgh.
6. *a*, SCOTLAND, W.														*	*	*	*	*	*	*	*	*	
a Poltalloch	132	58	19, 22	—	—	55·7	—	—	—	3	1·18	30	+ 1	*	*	*	*	*	*	*	*	*	
p Glasgow Observatory	180	59	17th	41	20th	56·0	46·4	51·0	− 1·4	3	0·32	8	− 12	3·1	− 0·1	25	2	28	*	*	*	*	Glasgow.
p Rothesay	170	59	19th	42	21st	55·7	45·9	50·6	− 2·6	5	1·13	29	+ 4	*3·0*	—	*24*	0	37	53·3	*	55·1	+1·6	*Rothesay.*
a Kilmarnock	90	60	20th	35	20th	55·4	44·9	49·9	− 2·7	4	0·49	12	—	*2·7*	—	*22*	*	*	52·9	*	54·6	*	*Kilmarnock*
a Colmonell	170	60	20, 23	37	20, 21	58·1	45·9	51·7	− 2·0	2	0·69	18	− 6	*	*	*	0	33	*	*	*	*	
a Dumfries	160	59	17, 23	40	20th	56·4	46·0	51·0	− 2·6	4	0·43	11	− 7	*3·3*	—	*27*	0	34	54·2	*	57·3	*	*Dumfries.*
Eskdalemuir	*799*	*57*	*17th*	*34*	*20, 21*	*54·6*	*38·9*	*46·4*	—	*4*	*1·31*	*33*	—	*2·6*	—	*21*	*	*	*	*	*	*	*Eskdalemuir.*
p Cally, Gatehouse	120	63	19th	35	20th	59·0	42·9	50·6	− 1·8	4	0·97	25	+ 2	*	*	*	*	*	*	*	*	*	
b, I. OF MAN. *p* Douglas	277	59	17th	45	21st	56·9	43·9	52·7	− 0·8	5	1·01	26	+ 3	3·7	− 1·0	30	0	41	*	*	*	*	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	65	23rd	39	21st	58·6	44·6	51·3	− 1·0	4	0·28	7	− 8	4·5	—	37	0	31	50·5	−1·6	53·5	+0·7	Cockle Park.
a Tynemouth	71	61	23rd	42	21st	55·9	45·6	50·5	− 3·1	3	0·24	6	− 5	*	*	*	*	*	*	*	*	*	Tynemouth
p Durham	336	60	23rd	33	21st	56·9	42·3	49·3	− 3·9	3	0·26	7	− 5	4·4	+ 0·6	36	1	28	*	*	*	*	Durham.
a North *p* Rounton	249	60	18th	33	21st	56·3	42·6	49·1	− 4·6	3	0·44	11	0	*	*	*	1	29	53·6	*	*	*	Rounton.
a West Witton	*605*	*63*	*23rd*	*35*	*21st*	*57·9*	*43·1*	*50·1*	—	*4*	*0·30*	*8*	—	*	*	*	1	29	52·7	*	53·8	*	*West Witton.*
p Scarborough†	100	61	18, 23	45	17, 19, 22	59·0	46·0	52·2	− 2·5	4	0·34	9	− 3	4·0	—	33	*	*	*	*	55·0	*	Scarborough
p York	56	60	17, 23	38	21st	57·9	45·1	51·2	− 3·3	3	0·33	8	− 3	2·8	− 1·1	23	*	*	55·8	+0·1	57·2	+1·5	York.
b, South *a* Spurn Head	26	62	17th	45	21, 22	58·3	46·4	52·1	− 3·8	4	0·31	8	− 1	*3·7*	—	*30*	*	*	*	*	*	*	*Spurn Head.*
a Lincoln	58	62	17th	36	21st	57·7	43·5	50·3	− 4·6	3	0·52	13	+ 3	*	*	*	*	*	53·5	−2·2	57·2	+1·2	Lincoln.
a Fulbeck	180	62	17, 18, 23	33	21st	59·1	43·1	50·7	− 4·5	3	0·65	17	+ 6	3·3	—	27	0	33	54·6	−2·4	56·6	−0·4	Ranceby.
														4·9	—	40	*	*	*	*	*	*	Skegness.
3. ENGLAND, E.																							
p Cromer	196	62	22nd	44	19th	58·1	46·0	51·8	− 3·6	3	0·30	8	—	3·3	—	27	*	*	*	*	*	*	Cromer.
p Little Massingham	280	62	17, 23	40	22nd	57·6	42·9	49·9	− 5·3	4	0·83	21	+ 7	3·6	− 0·9	29	0	39	*	*	*	*	Lit. Massingham.
a, North *a* Yarmouth	13	62	17th	40	20th	59·0	44·7	51·5	− 4·6	5	0·59	15	+ 3	4·0	—	33	*	*	55·7	−2·3	57·1	−2·1	Yarmouth.
a Norwich	93	63	23rd	40	17, 21	58·7	44·0	51·0	− 5·1	4	0·62	16	—	*3·4*	—	*28*	0	35	55·1	*	*	*	*Norwich.*
a Geldeston	37	65	23rd	40	17, 23	60·3	43·0	51·2	− 4·7	4	0·79	20	+ 7	3·6	− 1·4	29	0	*	*	*	*	*	Geldeston.
p Cambridge	41	64	23rd	35	22nd	59·1	41·4	49·8	− 6·1	3	0·55	14	+ 3	3·8	− 1·0	31	0	31	55·6	−1·6	57·7	−0·4	Cambridge.
b, South *a* Clacton-on-Sea	54	63	17, 23	43	21st	59·3	47·1	52·9	− 3·6	3	0·39	10	—	4·3	—	35	0	40	55·8	−2·1	58·3	−0·3	Clacton.
a Rothamsted	424	61	17th	37	22nd	57·0	42·0	49·1	− 5·5	3	0·78	20	+ 7	3·7	− 1·0	30	2	30	53·8	*	*	*	Rothamsted.
p Tottenham	51	65	17th	38	22nd	59·3	43·7	51·1	− 5·3	3	0·43	11	—	3·8	—	31	0	36	*	*	59·6	−0·1	Tottenham.
4. MIDLAND COUNTIES.																							
a North *a* Harrogate	479	59	23rd	39	21st	56·0	44·4	49·9	− 3·1	2	0·36	9	− 6	3·2	—	26	0	34	53·0	−1·3	54·8	+1·2	Harrogate.
p Buxton	*987*	*57*	*23rd*	*35*	*21st*	*54·4*	*42·7*	*48·3*	− *3·0*	*3*	*1·34*	*34*	+ *12*	*2·6*	—	*21*	0	32	51·7	−1·5	55·0	+1·2	*Buxton.*
a Bawtry	65	60	17th	35	21st	57·7	43·0	50·0	− 4·4	3	0·27	7	− 3	1·8	—	15	0	32	53·6	−1·0	55·4	−0·3	Sheffield.
a Nottingham	82	62	17, 23	38	21, 22	58·4	42·3	50·0	− 4·8	3	0·51	13	+ 1	2·5	− 1·3	20	1	29	53·9	*	55·4	*	Worksop.
b, East *p* Birmingham, Edgbsn.	535	63	17th	44	22, 23	57·7	46·1	51·6	− 2·9	3	0·53	14	+ 2	3·0	—	24	0	33	53·7	−1·2	56·5	+0·1	Nottingham.
a Raunds	203	65	17th	33	21, 22	60·3	40·0	49·7	− 5·1	3	0·31	8	—	1·3	—	11	0	31	51·7	−1·4	53·4	+0·3	Birmingham.
p Oxford	208	64	17th	36	21st	59·7	42·4	50·6	− 4·7	3	0·46	14	+ 1	*4·3*	—	*35*	2	26	57·7	*	57·3	*	*Raunds.*
														3·9	− 0·8	32	2	29	*	*	*	*	Oxford
a Cheadle	646	59	17, 23	41	21st	56·3	43·4	49·5	− 3·7	3	0·74	19	+ 3	*	*	*	0	36	*	*	*	*	Cheadle.
c, West *p* Shrewsbury	191	62	17, 23	35	21st	59·4	41·0	49·8	− 5·3	2	0·54	14	—	*	*	*	0	34	*	*	*	*	Shrewsbury.
a Hereford§	291	65	17th	39	21, 23	60·7	42·6	51·2	− 3·7	2	*0·23*	*6*	− 5	*3·7*	—	*30*	1	30	56·2	*	58·6	*	*Malvern.*§
a Bath	66	66	17th	37	22nd	61·1	44·1	52·2	− 4·1	2	0·35	9	− 5	3·8	—	31	*	*	58·0	−0·7	59·7	0·0	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	63	17th	32	21st	58·9	39·6	48·8	− 4·7	3	0·58	15	+ 2	6·1	—	50	0	39	57 0	−1·3	59·6	+0·5	Worthing.
a Margate	53	65	17th	45	19th	59·9	50·7	55·1	− 2·4	3	0·56	14	+ 2	3·1	− 1·0	25	2	29	55·3	*	56·9	*	Marlborough.
a Wisley, Surrey	150	65	17, 23	34	22nd	59·4	41·9	50·2	− 6·1	3	0·49	13	—	4·4	− 0·4	36	0	42	57·3	0·0	60·4	+2·7	Margate.
p Salisbury (Wilton)	180	65	17th	37	21st	60·9	43·3	51·7	− 3·7	2	0·39	10	− 3	4·2	—	34	3	29	55·8	−1·3	57·4	−0·8	Wisley.
a Tunbridge Wells	354	64	17th	37	22nd	59·7	44·9	51·9	− 3·7	3	0·58	15	+ 1	*	*	*	0	34	57·1	*	*	*	Salisbury.
														3·9	− 1·2	32	1	29	57·2	−0·3	58·7	*	Tunbridge Wells.
a Dungeness	21	66	17th	42	21st	60·9	48·6	54·5	− 3·2	3	0·63	16	+ 3	*	*	*	*	*	*	*	*	*	Littlestone.
p Hastings	178	66	17th	43	19th	60·7	47·1	53·6	− 3·8	3	0·61	16	− 1	6·0	+ 0·6	49	0	39	57·8	*	59·8	*	Hastings.
p Southampton	64	66	17th	41	21st	61·0	46·6	53·5	− 3·8	3	0·38	10	− 4	4·8	− 0·3	39	0	32	*	*	*	*	Southampton.
a Ventnor	59	65	17th	44	21st	61·1	50·4	55·5	− 3·3	3	0·69	18	+ 2	5·6	+ 0·1	46	*	*	*	*	*	*	Ventnor.
LONDON. *p* Kew Observatory	18	64	17, 23	37	22nd	59·0	43·5	50·9	− 4·8	3	0·53	14	+ 2	3·5	− 1·0	28	0	31	55·2	−1·5	57·4	+0·3	Kew Obs.
a Westminster	*27*	*66*	*17, 23*	*40*	*22nd*	*60·9*	*46·2*	*53·2*	− *3·3*	*3*	*0·48*	*12*	*0*	*3·3*	− *0·4*	*27*	0	36	*	*	*	*	*Westminster.*
a Greenwich	*155*	*66*	*17, 23*	*36*	*22nd*	*60·4*	*44·1*	*51·9*	− *5·0*	*3*	*0·37*	*9*	− *2*	*3·7*	− *1·3*	*30*	0	31	*	*	*	*	*Greenwich.*
a Hampstead	*450*	*63*	*23rd*	*40*	*21st*	*57·9*	*43·8*	*50·5*	—	*3*	*0·53*	*13*	—	*4·3*	—	*35*	2	27	*	*	*	*	*Hampstead.*
a Camden Square	*110*	*66*	*17th*	*38*	*22nd*	*61·6*	*44·4*	*52·6*	—	*3*	*0·50*	*13*	—	*3·2*	—	*26*	0	37	*	*	*	*	*Camden Square.*
7. *a*, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	59	23rd	38	20th	55·3	45·3	50·1	− 2·5	3	0·41	10	− 12	2·9	—	24	*	*	*	*	*	*	Hoylake.
p Newton Rigg	559	59	20, 23	36	21st	56·3	43·1	49·4	− 2·2	4	0·63	16	− 2	2·8	− 1·2	23	0	35	52·8	*	54·6	*	Aspatria.
p Stonyhurst	375	59	18th	42	21st	57·1	46·6	51·6	− 1·9	2	1·54	39	+ 14	3·1	—	25	0	33	54·3	−0·7	55·2	+0·8	Newton Rigg.
p Blackpool	66	61	23rd	43	20th	58·1	48·3	53·0	− 1·8	3	0·97	25	+ 6	2·6	− 1·5	21	0	31	*	*	*	*	Stonyhurst.
a Southport	37	60	23rd	43	20th	58 0	48·6	53·1	− 1·4	2	0·89	23	+ 5	3·4	− 0·7	28	1	29	56·6	*	57·3	*	Blackpool.
a Liverpool (Bidston)	188	61	17th	46	21, 23	58·0	49·3	53·4	− 1·4	3	0·56	14	− 2	3·2	− 1·0	26	0	32	55·4	−1·1	58·3	+0·6	Southport.
a Hawarden Bridge	22	62	17, 22	39	18th	59·1	48·6	52·6	− 3·1	3	0·65	16	+ 5	*3·2*	—	*26*	*	*	*	*	*	*	*Liverpool.*
p Manchester (Whit. Pk.)	125	61	17, 23	42	21st	58·4	47·1	52·5	− 2·1	3	0·78	20	+ 4	*2·1*	—	*17*	0	41	54·6	−0·9	59·3	+1·6	*Manchester (City)*
														1·7	− *1·7*	*14*	*	*	*	*	*	*	" *(Whit. Park)*
b, NORTH WALES.																							
p Llandudno	71	60	17, 18, 22	46	21st	58·6	50·1	54·2	− 1·9	3	0·65	16	+ 2	2·9	− 1·3	24	*	*	*	*	*	*	Llandudno.
a Holyhead	15	61	23rd	49	19th	58·6	52·1	55·2	− 0·4	3	0·88	22	+ 5	*3·5*	—	*29*	*	*	*	*	*	*	*Holyhead.*
p Bettws-y-Coed	148	63	23rd	39	21st	58·9	45·4	51·8	− 3·2	3	1·71	43	—	2·5	—	20	*	*	52·9	−0·2	54·0	+0·2	Bettws-y-Coed.
														3·9	—	32	*	*	*	*	*	*	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	Bright Sunshine. Hours per Day. Daily Mean	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														3·5	—	29	*	*	*	*	*	*	
a Llangammarch Wells	550	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	Aberystwyth.
a Pembroke	149	60	23rd	48	21st	58·6	51·1	54·7	− 1·3	2	0·71	18	0	4·6	− 0·2	37	*	*	*	*	*	*	Llangammarch.
p Cardiff	202	63	17, 23	43	21, 22	60·6	46·7	53·3	− 1·9	2	0·43	11	− 10	*4·4*	—	*36*	0	37	57·3	+1·6	58·3	+1·1	Pembroke.
																							Cardiff.
b, ENGLAND, S.W.																							
a Clifton	229	65	17th	43	21st	61·0	47·9	54·1	− 2·3	1	0·34	9	− 7	*3·3*	—	*27*	0	41	*	*	*	*	*Clifton.*
a Shaftesbury	722	61	17th	43	20th	57·4	47·0	52·0	− 3·0	3	0·50	13	− 3	*	*	*	*	*	56·0	*	58·5	*	Shaftesbury.
a Arlington	613	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	Arlington.
a *Newquay*	*190*	*63*	*19th*	*44*	*23rd*	*60·0*	*50·6*	*55·1*	− *1·9*	*2*	*0·24*	*6*	− *12*	4·3	− 0·7	35	*	*	59·0	*	59·0	*	Newquay.
a Cullompton	202	68	17th	39	22nd	62·3	46·3	53·9	− 0·8	2	0·63	16	+ 1	3·6	− 0·9	29	0	36	57·1	*	*	*	Cullompton.
a Portland Bill	19	63	23rd	49	20th	60·6	52·9	56·6	− 1·2	2	0·20	5	—	*4·3*	—	*35*	*	*	*	*	*	*	*Weymouth.*
p Plymouth	116	65	17, 23	41	21st	62·3	48·1	54·9	− 1·9	2	0·11	3	− 13	4·9	− 0·1	40	*	*	57·5	− 0·7	58·8	*	Plymouth.
a Falmouth	167	64	17th	47	21st	61·6	49·7	55·4	− 1·3	2	0·27	7	− 13	5·8	+ 0·7	47	0	40	60·8	*	61·3	*	Falmouth.
9. IRELAND, N.																							
a, West .. { *a* Malin Head	208	60	22, 23	45	18th	57·3	48·6	52·7	− 1·3	2	0·67	17	− 1	*1·3*	—	*11*	*	*	*	*	*	*	*Malin Head.*
a Blacksod Point ..	?	61	23rd	46	19th	56·7	49·6	53·0	− 1·1	5	0·76	19	− 6	*	*	*	*	*	*	*	*	*	*
p Markree Castle ..	122	62	23rd	44	20, 21	58·3	47·6	52·7	− 0·1	4	0·92	23	+ 1	1·0	− 2·6	8	0	36	56·2	*	57·0	*	Markree Castle.
a Birr Castle	175	64	23rd	39	20th	58·6	46·9	52·5	− 1·0	3	0·59	15	+ 1	*1·5*	− *2·7*	*12*	*	*	*	*	*	*	*Birr Castle.*
b, East .. { *p* Armagh	196	64	23rd	41	20th	58·0	47·7	52·6	− 0·5	2	0·51	13	− 2	1·2	− 2·6	10	0	34	56·8	+0·6	57·5	+1·5	Armagh.
a Donaghadee ..	101	61	17th	48	18, 19	57·0	49·7	53·2	− 1·1	3	0·29	7	− 9	*	*	*	*	*	*	*	*	*	*
														*	*	*	*	*	56·4	0·0	57·4	+1·0	Trinity Coll.
10. IRELAND, S.														1·6	− 3·0	13	0	33	*	*	*	*	Phœnix Park.
a, East .. { *p* Dublin, City	47	62	17, 23	43	20th	59 0	48·7	53·6	− 1·7	3	0·30	8	− 5	*	*	*	0	39	*	*	*	*	Dublin City.
a Kilkenny	212	62	23rd	40	20th	58·4	48·7	53·3	− 0·9	4	0·41	10	− 4	*	*	*	*	*	*	*	*	*	*
a Waterford	20	63	17th	43	20th	59·1	49·6	54·1	− 0·5	3	0·57	14	− 3	*	*	*	*	*	*	*	*	*	*
a *Seskin, Carrick-on-Suir*	*541*	*61*	*17th*	*43*	*20th*	*57·0*	*48·0*	*52·3*	—	*4*	*0·52*	*13*	—	*1·9*	—	*15*	0	40	*	*	*	*	*Seskin.*
b, West .. { *a* Birr Castle	175	64	23rd	39	20th	58·6	46·9	52·5	− 1·0	3	0·59	15	+ 1	1·5	− 2·7	12	*	*	*	*	*	*	Birr Castle.
a Foynes	50	63	23rd	45	20th	59·0	50·1	54·3	− 0·4	3	0·57	15	− 3	*	*	*	*	*	*	*	*	*	*
a Cahir	199	62	17th	46	20th	59·0	49·1	53·8	− 0·8	4	0·51	13	—	*	*	*	*	*	*	*	*	*	*
a Killarney	174	64	23rd	43	20, 21	60·5	49·3	54·6	0·0	5	0·50	13	− 10	*	*	*	*	*	*	*	*	*	*
a Valencia	30	62	23rd	50	21st	59·4	52·1	55·6	− 0·2	5	0·42	11	− 14	1·3	− 3·0	11	*	*	*	*	*	*	Valencia.
a Roche's Point ..	32	62	17th	47	20, 21	59·6	51·3	55·3	− 0·6	4	0·21	5	− 14	2·8	—	23	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	63	17, 23	51	19th	60·9	52·9	56·7	− 1·5	2	0·24	6	− 10	3·9	− 1·6	32	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	66	17th	46	23rd	62·1	51·9	56·3	− 3·5	2	0·87	22	+ 5	5·2	− 0·7	42	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	68	17th	49	23rd	63·4	52·7	57·8	− 1·4	3	0·43	11	− 8	5·1	− 0·5	41	0	42	59·0	−1·2	61·8	+0·9	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, September 23rd, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Above Ground.	Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.		Date and Hour, G.M.T.	Highest Gust with Date and Time, G.M.T.		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.		m/s.	d.	h. m.
1. SCOTLAND, E.																	
Dyce	305	75	‡15**	—	—	—	—	14	96	58	0	—	7	17th 12h.	17	19th	12 . 28
Aberdeen*	153	105 { 37	†	—	—	—	—	55	98	15	0	S. by W.	10	17th 12h.	18	17th	12 . 16
Edinburgh	485	39	31	—	—	17th	3	77	70	12	6	SE.	16	17th 12h.	26	17th	11 . 20
6. SCOTLAND, W.																	
Eskdalemuir	850	50	22	—	—	17 to 19	23	52	41	52	0	N. by E.	15	19th 3h.	23	19th	2 . 50
Paisley	188	81	52	—	—	18th	1	41	88	38	0	N.	11	18th 22h.	25	17th	9 . 50
2. ENGLAND, N.E.																	
Alnwick Castle	340	70	17	—	—	—	—	41	68	59	0	—	10	19th 3h.	19	19th	3 . 36
South Shields	72	61	12	—	—	19th	6	59	89	14	0	NE. by N.	13	19th 5h.	20	19th	4 . 38
Spurn Head	66	40	‡	—	—	18 to 20	33	61	73	1	0	—	14	19th 9h.	21	19th	8 . 28
3. ENGLAND, E.																	
Gorleston	52	42	‡	—	—	19th	4	51	90	23	0	—	12	19th 15h.	18	19th	14 . 35
Shoeburyness	103	90	‡	—	—	—	—	42	104	22	0	N. by W.	8	19th 14h.	16	19th	14 . 38
4. MIDLAND COUNTIES.																	
Benson	270	84	‡	—	—	19th	1	38	70	59	0	NNW.	11	19th 14h.	21	19th	11 . 50
5. ENGLAND, S.E.																	
Dover	271	40	‡	—	—	19, 20	4	65	40	22	37	—	13	19th 17h.	19	20th	11 . 57
Warlingham	842	33	‡	—	—	—	—	1	100	67	0	—	6	18th 1h.	12	19th	18 . 45
Brighton	261	53	6	—	—	—	—	24	124	19	1	—	9	18th 1h.	15	19th	14 . 38
Kew Observatory ..	82	65 { 6	†	—	—	—	—	4	97	67	0	NNE.	7	19th 14h.	14	19th	13 . 33
South Kensington ..	123	92	22 † 30	—	—	—	—	—	89	79	0	NW. by N.	5	19th 12h.	11	18th	16 . 33
7. ENGLAND, N.W.																	
Carnforth	246	56	23	—	—	—	—	26	44	98	0	W. by S.	9	18th 15h.	17	18th	15 . 5
Southport	80	62	48	18, 19	9	17 to 19	36	20	95	8	0	W. by N.	20	18th 19h.	26	18th	17 . 46
Holyhead*	60	40	‡	18, 19	12	17 to 19	43	60	52	1	0	NW. by N.	21	18th 24h.	27	18th	23 . 3
8. ENGLAND, S.W.																	
Pendennis Castle§ ..	256	65	24	—	—	18, 19	22	69	45	32	0	NNW.	14	19th 11h.	22	19th	11 . 35
Plymouth	185	88	2	—	—	—	—	45	70	53	0	—	11	19th 10h.	21	19th	10 . 21
Lyme Regis	556	61	‡	—	—	19th	10	48	46	64	0	—	13	19th 12h.	20	19th	11 . 52
10. IRELAND, S.																	
Quilty	100	40	‡	18th	3	17 to 19	42	58	57	0	8	—	18	18th 21h.	27	18th	11 . 15
Weaver Pt.	160	30	‡	—	—	18, 19	3	82	76	7	0	—	13	19th 9h.	20	19th	9 . 13
11. ENGLISH CHANNEL.																	
Scilly*	150	{ 32 12 }	‡	18, 19	4	17 to 19	26	34	53	51	0	NNW.	18	18th 22h.	24	19th	{ 3 . 28 5 . 28

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.
** Above tops of trees.
‡ Standard mounting.
§ Direction from the Robinson Anemometer at Falmouth Observatory.
† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

THIRTY-EIGHTH WEEK—September 17th to September 23rd, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Accumulated Deviation from Normal.	Below 42°	Deviation from Normal.	Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	64	33	85·4	79·7	82·4	− 1·3	49	− 16	0	− 1	5	0	0·93	24	− 3	1·3	−1·9	11	1012
Eastern.																			
1. SCOTLAND, EAST ...	65	28	86·4	79·1	82 6	− 1·3	50	− 19	0	− 1	4	+ 1	0·59	15	+ 1	3·4	−0·4	27	1013
2. ENGLAND, N.E.	65	33	87·3	79·9	83 4	− 1·8	61	− 22	0	0	3	0	0·37	10	+ 1	4·0	−0·4	32	1015
3. ENGLAND, EAST ...	65	35	87·8	79·6	83 5	− 2·6	62	− 34	0	0	4	+ 1	0·59	15	+ 4	3·8	−1·2	31	1015
4. MIDLAND COUNTIES ...	66	33	87·8	79·1	83·3	− 2·1	60	− 27	0	− 1	3	0	0·43	11	0	2·8	−1·5	23	1016
5. ENGLAND, S.E.	66	32	88·7	80·6	84 4	− 2·4	74	− 29	0	0	3	0	0·54	14	+ 2	4·6	−0·4	38	1016
Western.																			
6. SCOTLAND, WEST ...	63	35	86·8	80·7	83·6	− 1·0	64	− 12	0	0	4	+ 1	0·78	20	− 4	3·4	−0·7	28	1014
7. ENGLAND, N.W.	63	36	87·3	81·6	84 3	− 1·3	73	− 15	0	0	3	− 1	0·87	22	+ 5	3·0	−1·2	24	1016
8. ENGLAND, S.W.	68	39	88·9	82·3	85·4	− 0·9	87	− 10	0	0	2	− 2	0·40	10	− 8	4·5	−0·2	36	1018
9. IRELAND, NORTH ...	64	39	87·3	82·1	84·6	− 0·4	76	− 6	0	0	3	− 1	0·62	16	− 2	1·1	−2·6	9	1015
10. IRELAND, SOUTH ...	64	39	88·1	82·7	85·3	− 0·4	85	− 5	0	0	4	+ 1	0·45	12	− 4	1·8	−2·6	15	1019
11. ENGLISH CHANNEL ...	68	46	89·7	84·2	86·8	− 1·1	104	− 14	0	0	2	− 2	0·51	13	− 2	4·7	−1·3	38	1019

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 3 Weeks, September 3rd to September 23rd, 1916.

0. SCOTLAND, NORTH ...	71	33	87·1	80·7	83·8	− 0·5	199	− 19	0	− 1	15	+ 1	2·15	55	− 20	2·7	−0·8	21	1016
Eastern.																			
1. SCOTLAND, EAST ...	74	28	88·6	80·1	84·2	− 0·5	211	− 24	0	− 2	10	0	1·41	35	− 3	4·3	+0·1	33	1016
2. ENGLAND, N.E.	74	33	89·2	81·6	85·2	− 0·6	253	− 20	0	0	8	− 1	1·45	38	+ 2	4·1	−0·5	32	1018
3. ENGLAND, EAST ...	71	35	89·4	81·9	85·5	− 1·2	261	− 49	0	0	9	+ 1	1·13	29	− 4	3·6	−1·6	28	1017
4. MIDLAND COUNTIES ...	72	33	89·7	81·5	85·4	− 0·7	261	− 24	0	− 1	7	− 1	0·98	25	− 9	3·5	−1·1	27	1019
5. ENGLAND, S.E.	73	32	90·5	82·7	86·3	− 1·1	295	− 38	0	0	6	− 2	0·86	23	− 14	4·6	−0·7	36	1018
Western.																			
6. SCOTLAND, WEST ...	72	35	88·6	81·9	85·1	0·0	247	− 4	0	0	12	+ 2	1·68	43	− 25	4·0	−0·4	31	1018
7. ENGLAND, N.W.	75	34	88·8	83·1	85·8	− 0·3	275	− 9	0	0	10	0	2·01	52	+ 3	3·1	−1·4	24	1019
8. ENGLAND, S.W.	72	34	90·3	83·6	86·7	− 0·1	310	+ 1	0	0	5	− 5	0·63	16	− 34	4·0	−1·0	32	1020
9. IRELAND, NORTH ...	73	35	89·0	83·1	86·0	+ 0·5	280	+ 16	0	0	12	0	1·24	31	− 22	2·6	−1·3	20	1020
10. IRELAND, SOUTH ...	77	39	90·2	83·7	86·8	+ 0·6	312	+ 24	0	0	11	+ 1	0·98	26	− 23	3·3	−1·3	26	1022
11. ENGLISH CHANNEL ...	70	43	90·6	85·5	87·9	− 0·4	352	− 16	0	0	5	− 5	0·76	20	− 21	5·4	−0·9	42	1021

THE YEAR.—Aggregates, &c., for the Period of 38 Weeks, January 2nd to September 23rd, 1916.

0. SCOTLAND, NORTH ..	81	20	84·1	78·3	81·1	0·0	1693	− 79	454	−104	181	+ 7	36·12	915	+ 42	3·0	−0·6	22	1010
Eastern.																			
1. SCOTLAND, EAST ...	82	7	84·9	77·7	81·2	− 0·2	1826	−179	585	− 37	160	+17	29·00	737	+202	3·6	−0·7	27	1011
2. ENGLAND, N.E.	84	20	86·1	79·0	82·4	+ 0·3	2261	+ 38	379	− 96	139	+10	19·67	502	+ 71	3·9	−0·7	30	1012
3. ENGLAND, EAST ..	83	24	86·9	79·4	83·0	+ 0·2	2497	− 73	353	−168	141	+17	19·90	504	+ 95	4·1	−0·9	32	1013
4. MIDLAND COUNTIES ...	84	21	87·1	78·9	82·8	+ 0·1	2474	− 47	405	−129	134	+11	20·06	512	+ 52	3·9	−0·6	29	1013
5. ENGLAND, S.E.	86	15	87·4	79·9	83·5	0·0	2689	− 63	294	− 87	132	+14	20·16	513	+ 68	4·7	−0·4	36	1014
Western.																			
6. SCOTLAND, WEST ...	83	17	85·7	79·0	82·2	+ 0·1	2158	+ 4	365	− 60	160	+10	29·93	764	− 36	4·2	−0·2	32	1012
7. ENGLAND, N.W.	83	8	86·1	79·8	82·8	+ 0·1	2354	+ 3	310	− 76	143	+ 5	24·13	614	+ 26	4·1	−0·4	31	1013
8. ENGLAND, S.W.	84	17	87·0	80·1	83·3	0·0	2567	− 34	279	− 22	139	+ 4	26·06	668	+ 40	4·7	−0·3	36	1014
9. IRELAND, NORTH ...	81	18	85·7	79·3	82·4	− 0·1	2196	− 55	334	− 11	172	+ 8	25·79	660	− 2	3·7	−0·3	28	1012
10. IRELAND, SOUTH ...	85	20	87·0	80·1	83·4	0·0	2598	+ 24	244	− 15	176	+31	25·96	656	− 33	4·4	−0·1	33	1015
11. ENGLISH CHANNEL ...	80	30	87·3	81·9	84·5	0·0	2940	− 14	85	− 24	136	− 7	20·64	522	+ 9	5·6	−0·4	43	1015
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., September 28th, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 153

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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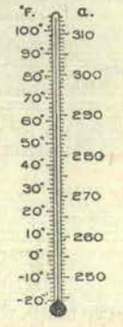
THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 39. SUNDAY, SEPTEMBER 24TH, TO SATURDAY, SEPTEMBER 30TH, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE THIRTY-NINTH WEEK OF 1916.

The greater part of the week was dry in all the more northern districts, and in the south several days passed without rain. Thunderstorms occurred over a large area in southern Ireland and England on the 26th, and on the three days following several places in the south of England experienced further thunderstorms. Temperature was above the normal in all districts, the greatest deviation being about 2·5 a. in Ireland, and the least 0·7 a. in Scotland East. In several parts of Great Britain the maximum readings exceeded 294 a., the highest being 296 a. in England North-East and the Midland Counties. The lowest of the minima were recorded either at the beginning or at the end of the week. In Scotland East (at West Linton) the thermometer fell to 273 a., and in England North-East and North-West to 274a. In Ireland the lowest reading was 278·5 a. At West Linton the minimum on the grass was 271 a., at West Witton, Malvern, Birmingham, Tunbridge Wells and Hampstead, 271·5 a., and at some other places a little below 273 a. During the period as a whole the night temperature was high for the time of year. Rainfall was moderate in Ireland and also in England South and very heavy in the English Channel; elsewhere it was light or very light. Some heavy local falls accompanied the thundery conditions in the southern districts. On the 26th 50 mm. fell at Guernsey, 36 mm. at Jersey and 37 mm. at Cullompton, on the 27th 30 mm. at Pembroke and 34 mm. at Birr Castle, and on the 29th 38 mm. at Wilton (Salisbury). At Malin Head, Poltalloch, Fort Augustus and a few places in eastern and central England the week was rainless. Bright sunshine was very scanty in Ireland South, scanty or moderate elsewhere. The daily duration ranged from 4·2 hours in England East and the English Channel to 2·3 hours in Scotland North and West and Ireland South, and to 1·8 hours in Scotland East. At Glasgow the daily amount was 0·5 hour and at Rothesay 1 hour. The brightest stations were Yarmouth and Skegness with about 5·5 hours. On most parts of the coast the temperature of the sea surface water was rather above the average, but at Eastbourne and Port Erin it was a little below it.



WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.
		m/s		m/s		m/s		m/s		m/s		m/s		m/s		m/s
South	4	3·1	3	1·6	3	1·3	1	1·9	3	3·0	6	4·8	4	3·3	4	5·3
North	2	3·3	4	3·0	4	4·1	3	2·8	3	2·6	1	1·2	2	2·9	1	1·7
West	1	1·1	1	1·2	0	—	1	0·2	1	1·7	0	—	1	1·7	0	—
East	6	4·4	6	2·8	7	3·5	6	2·5	6	5·8	7	3·5	6	4·5	7	4·5
Calm	0	—	0	—	0	—	1	—	0	—	¼	—	0	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c is printed on a separate sheet. *See below*, Note (1).		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Unusual	Very unusual	Very unusual	Unusual
	Rainfall ...	Very light	Light	Very light	Light	Light	Moderate	Very light	Light	Heavy	Moderate	Moderate	Very heavy
	Sunshine ...	Scanty	Scanty	Moderate	Moderate	Scanty	Scanty	Scanty	Moderate	Scanty	Moderate	Very scanty	Scanty

II.—THE AUTUMN SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

AUTUMN. 4 weeks from Sept. 3rd, 1916.	Warmth ...	2, 0, 2	2, 1, 1	2, 1, 1	1, 1, 2	2, 1, 1	1, 2, 1	2, 1, 1	2, 1, 1	2, 2, 0	2, 2 0	2, 2, 0	1, 2, 1
	Rainfall ...	0, 2, 2	0, 3, 1	1, 1, 2	1, 1, 2	0, 2, 2	0, 2, 2	0, 2, 2	0, 2, 2	1, 1, 2	0, 3, 1	0, 2, 2	1, 2, 1
	Sunshine ...	1, 1, 2	1, 2, 1	0, 3, 1	0, 1, 3	0, 1, 3	0, 2, 2	0, 2, 2	0, 1, 3	0, 1, 3	0, 2, 2	0, 1, 3	0, 1, 3

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.) and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(9274—19.) Wt. 79a—736. 450. 10/16. D & S. G. 17/ 36

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.	*31*	—	—	—	—	—	—	—	—	—	—	—	—				*	*	*	*	*	*	*Baltasound.*
a, Islands.. *p Baltasound*	54	57	24th	41	30th	51·6	46·7	49·0	0·0	5	0·06	2	—	1·9	- 1·5	16	*	*	*	*	*	*	Deerness.
a Lerwick..	62	62	28th	44	30th	58·0	49·0	53·3	+ 3·7	1	0·04	1	- 27	3·1	- 0·4	26	*	*	*	*	*	*	Stornoway.
a Stornoway	*37*	*61*	*29th*	*49*	*30th*	*58·1*	*54·0*	*56·0*	*+ 4·8*	*1*	*0·04*	*1*	—	*2·7*	—	*23*	*	*	*	*	*	*	*Castlebay.*
a Castlebay, Barra Isd.	81	60	24th	45	30th	53·4	49·3	51·3	+ 1·1	2	0·02	0·4	- 16	*	*	*	*	*	*	*	*	*	Strathpeffer.
a, Main- land. *a* Wick	200	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	
p Strathpeffer	500	64	24th	42	30th	58·3	47·3	52·5	+ 3·7	0	0·00	0	- 52				*	*	*	*	*	*	Fort Augustus.
p Glencarron	68	66	24th	45	30th	59·4	49·6	54·3	+ 3·6	0	0·00	0	- 24	1·8	- 0·7	15	*	*	*	*	*	*	
p Fort Augustus..	171	64	24, 27, 28	38	30th	60·7	49·0	54·6	+ 3·1	1	0·05	1	- 43	*	*	*	*	*	*	*	*	*	
p Fort William																							
1. SCOTLAND, E.														1·2	—	10	0	32	53·6	+0·3	53·3	-0·4	Crathes.
p Gordon Castle	101	69	24th	43	30th	59·3	48·0	53·4	+ 2·0	2	0·03	1	- 16	*2·4*	—	*20*	*	*	*	*	*	*	*Gordon Castle.*
a Nairn	82	66	24th	42	25, 30	58·9	45·6	51·9	+ 1·5	1	0·02	1	- 12	2·2	—	18	*	*	*	*	*	*	Nairn.
a Aberdeen	46	64	24th	44	30th	55·7	49·3	52·4	+ 1·2	1	0·08	2	- 13	1·3	- 2·5	11	*	*	*	*	52·0	+0·1	Aberdeen.
a Balmoral	930	66	24th	37	25th	56·9	43·0	49·6	+ 2·0	3	0·21	5	- 13	*	*	*	0	35	*	*	*	*	Balmoral.
p Crieff	432	64	24, 28	40	30th	55·9	45·7	50·6	- 0·9	3	0·48	12	- 8	1·3	—	11	*	*	*	*	*	*	Balruddery.
a Leith	18	71	28th	41	30th	58·1	48·4	53·0	+ 0·4	2	0·08	2	- 8	*	*	*	*	*	*	*	*	*	
a West Linton	769	65	28th	32	25th	?58·0	43·7	50·5	+ 2·7	4	0·13	3	—	*1·5*	—	*13*	1	28	*	*	*	*	*West Linton.*
p Marchmont	498	67	24th	40	24, 30	57 1	44·6	50·6	0 0	4	0·21	5	- 12	1·4	—	12	0	35	*	*	*	*	Marchmont.
a Edinburgh	*441*	*63*	*28th*	*43*	*30th*	*55 3*	*47·3*	*51·1*	—	*4*	*0·07*	*2*	—										Edinburgh.
6. *a* SCOTLAND, W.																							
a Poltalloch	132	64	28th	—	—	58·6	—	—	—	0	0·00	0	- 29	*	*	*	*	*	*	*	*	*	
p Glasgow Observatory	180	63	28th	45	25, 30	57·0	49·3	53·0	+ 1·7	1	0·03	1	- 19	0·5	- 2·5	4	0	35	*	*	*	*	Glasgow.
p Rothesay	170	63	28th	43	30th	56·4	49·4	52·3	+ 0·3	3	0·17	4	- 21	*1·0*	—	*8*	0	40	53·7	*	54·0	+0·9	*Rothesay.*
a Kilmarnock	90	71	28th	38	25th	62·0	49·4	55·4	+ 3·9	2	0·61	15	—	*2·1*	—	*18*	*	*	53·7	*	53·6	*	*Kilmarnock.*
a Colmonell	170	69	28th	38	30th	63·1	48·6	55·5	+ 3·3	1	0·02	1	- 24	*	*	*	0	35	*	*	*	*	
a Dumfries	160	69	28th	41	25th	60·4	48·1	54·0	+ 2·1	2	0·15	4	- 15	*1·9*	—	*16*	0	35	54·3	*	56·0	*	*Dumfries.*
Eskdalemuir	*799*	*65*	*28th*	*37*	*25th*	*57·1*	*43·9*	*50·2*	—	*1*	*0·12*	*3*	—	*1·8*	—	*15*	*	*	*	*	*	*	*Eskdalemuir.*
p Cally, Gatehouse	120	67	28th	36	25th	60·4	44·4	52·0	+ 0·9	3	0·27	7	- 17	*	*	*	*	*	*	*	*	*	
b. I. OF MAN. *p* Douglas	277	63	26, 28	47	30th	60·4	52·6	56·3	+ 4·0	2	0·23	6	- 18	4·1	- 0·2	34	0	43	*	*	*	*	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	64	28th	34	25th	57·4	44·3	50·5	- 0·6	2	0·10	3	- 13	3·5	—	29	0	32	51·5	-0·6	52·3	0·0	Cockle Park.
a Tynemouth	71	63	28th	39	24th	56·3	47·1	51·5	- 0·7	1	0·04	1	- 11	*	*	*	*	*	*	*	*	*	Tynemouth
p Durham	336	68	28th	34	24th	58·7	45·1	51·6	- 0·1	1	0·02	1	- 12	3·0	- 0·6	25	1	30	*	*	*	*	Durham.
a North.. *p* Rounton	249	66	26, 28	38	24th	61·0	45·6	52·9	+ 1·6	2	0·03	1	- 11	*	*	*	0	34	54·1	*	*	*	Rounton.
a West Witton	*605*	*66*	*28th*	*35*	*24th*	*59·7*	*43 4*	*52·7*	—	*1*	*0·01*	*0*	—				1	29	52·4	*	52·5	*	*West Witton.*
p Scarborough†	100	65	28th	46	24th	58·4	50 0	54·5	+ 1·2	1	0·10	3	- 10	3·3	—	28	*	*	*	*	55·0	*	Scarborough.
p York	56	68	28th	44	24th	62·7	50·3	56·2	+ 3·3	0	0 00	0	- 12	4·2	+ 0·6	35	*	*	55·4	+0·1	56·0	+0·6	York.
a Spurn Head	26	64	28th	49	24th	60·0	51·9	55·8	+ 1·4	1	0·04	1	- 9	*4·8*	—	*40*	*	*	*	*	*	*	*Spurn Head.*
b South.. *a* Lincoln	68	73	26th	45	24th	64·9	50·1	57·1	+ 3·9	0	0·00	0	- 11	*	*	*	*	*	55·1	-0·2	56·0	+0·5	Lincoln.
a Fulbeck	180	71	26th	45	24, 25	64·4	49·3	56·5	+ 3·2	3	0·03	1	- 11	3·8	—	32	0	37	56·7	+0·7	55·5	-0·8	Rauceby.
														5·5	—	46	*	*	*	*	*	*	Skegness.
3. ENGLAND, E.																							
p Cromer	196	69	26th	46	25th	62·7	51·3	56·7	+ 2·7	1	0·02	1	—	5·1	—	43	*	*	*	*	*	*	Cromer.
p Little Massingham	280	69	26th	41	25th	63·1	?47·9	?55·1	+ 1·5	0	0·00	0·1	- 15	4·0	- 0·2	34	0	36	*	*	*	*	Lit. Massingham.
a, North.. *a* Yarmouth	13	66	28th	47	24th	62·1	52·9	57·3	+ 2·8	4	0·11	3	- 10	5·6	—	47	*	*	56·3	-1·0	56·0	-2·1	Yarmouth.
a Norwich	93	71	26th	39	25th	64·7	49·7	56·8	+ 1·9	1	0·02	1	—	*4·3*	—	*36*	0	35	55·8	*	*	*	*Norwich.*
a Geldeston	37	70	26th	35	25th	64·9	46·4	55·2	+ 1·2	3	0·10	3	- 10	4·9	+ 0·2	41	*	*	*	*	*	*	Geldeston.
p Cambridge	41	71	26-28	38	24th	66·3	47·9	56·7	+ 2·8	0	0·00	0	- 12	3·3	- 1·2	28	0	36	56·4	-0·3	56·7	-0·9	Cambridge.
a Clacton-on-Sea	54	66	28th	46	24th	62·6	53·0	57·6	+ 2·7	4	0·21	5	—	4·5	—	38	0	41	57·2	-0·2	57·6	-0·5	Clacton.
b, South.. *a* Rothamsted	424	67	26th	38	24th	62·7	47·6	54·8	+ 2·0	3	0·19	5	- 9	3·6	- 0·8	30	0	32	53·8	*	*	*	Rothamsted.
p Tottenham	51	70	26th	41	24th	65·3	50·0	57·3	+ 2·4	2	0·07	2	—	2·5	—	21	0	39	*	*	58·1	-1·0	Tottenham.
4. MIDLAND COUNTIES.																							
a North.. *a* Harrogate	479	65	28th	39	24th	59·4	47·3	53·1	+ 1·5	1	0·01	0·3	- 15	3·3	—	28	0	33	53·1	-0·6	53·7	+0·5	Harrogate.
p Buxton	*987*	*63*	*28th*	*35*	*24th*	*59·7*	*45·6*	*52·3*	*+ 2·6*	*1*	*0·03*	*1*	*- 22*	*3·2*	—	*27*	0	34	52·3	-0·8	54·0	+0·6	*Buxton.*
														1·7	—	14	0	36	53·7	-0·7	54·3	-0·3	Sheffield.
a Bawtry	65	69	26th	38	24th	64·0	46·6	54·9	+ 2·1	1	0·01	0	- 10	3·0	- 0·5	25	0	34	54·7	*	54·4	*	Worksop.
a Nottingham	82	70	26th	40	24th	63·7	46·6	51·7	+ 1·6	0	0·00	0	- 12	3·0	—	25	0	37	55·1	+0·5	55·5	-0·2	Nottingham.
b, East.. *p* Birmingham, Edgbsn.	535	68	27th	45	25th	63·3	49·9	56·3	+ 3·5	3	0·51	13	0	2·1	—	18	1	29	53·1	0·0	52·9	+0·1	Birmingham.
a Raunds	203	72	27th	39	24th	65·6	46·9	55·8	+ 2·7	2	0·06	2	—	*2·9*	—	*24*	0	32	56·8	*	56·5	*	*Raunds.*
p Oxford	208	70	28th	38	25th	64·7	48·1	56·0	+ 2·2	4	0 20	5	- 7	3·9	- 0·4	33	0	32	*	*	*	*	Oxford
a Cheadle	646	66	27, 28	41	24th	61·3	47·9	54·3	+ 2·7	1	0·01	1	- 15	*	*	*	0	37	*	*	*	*	Cheadle.
p Shrewsbury	191	68	25th	?40	24, 25	63·3	?45·9	?54·2	+ 0·4	2	0·16	4	—	*	*	*	0	31	*	*	*	*	Shrewsbury.
c. West.. *a* Hereford§	291	68	25, 29	36	25th	64·6	46·4	55·1	+ 1·7	4	0·23	6	- 6	*2·6*	—	*22*	1	29	56·5	*	57·2	*	*Malvern.§*
a Bath	66	73	25th	40	24th	65·6	50·4	57·6	+ 2·7	4	0·46	12	- 3	3·6	—	30	*	*	58·1	+0·1	58·4	-0·6	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	71	25th	35	24th	63·3	47·1	54·8	+ 2·8	4	0·37	9	- 4	4·2	—	35	0	39	57·1	-0·7	58·3	+0·1	Worthing.
a Margate	53	66	26, 27	49	24th	63·7	55·7	59·5	+ 3·5	2	0 13	3	- 10	2·6	- 1·2	22	0	32	56·3	*	56·1	*	Marlborough.
a Wisley, Surrey	150	72	25th	38	24th	64·7	47·3	55·6	+ 1·0	5	0·14	4	—	4·5	0·9	38	0	41	59·8	+2·3	59·3	+2·1	Margate.
b Salisbury (Wilton)	180	71	25th	38	24th	64·9	49 0	56 6	+2·8	4	2·50	64	+ 49	2·9	—	24	0	31	55·7	-0·8	56·1	-1·5	Wisley.
a Tunbridge Wells	354	70	25th	38	24th	65·3	50·9	57·8	+ 3 8	3	0·26	7	- 9	*	*	*	0	37	57·3	+0·3	*	*	Salisbury.
														3 5	- 1·2	29	1	29	57·3	*	57·7	*	Tunbridge Wells.
a Dungeness	21	67	25th	42	24th	64·0	52·7	58·1	+ 1·9	3	0 12	3	- 11	*	*	*	*	*	*	*	*	*	
p Hastings	178	69	25, 28	47	24th	65·1	53·6	59·1	+ 3·0	3	0·51	10	- 8	3·9	- 1·1	33	0	40	58·6	*	58·7	*	Littlestone.
p Southampton	64	71	28th	42	24th	65·1	51·7	58·1	+ 2·4	4	0·75	19	+ 4	3·4	- 1·3	29	0	34	*	*	*	*	Hastings.
a Ventnor	59	69	28th	48	30th	64·1	55·0	59·3	+ 1·9	5	1·08	28	+ 12	3·2	- 1·9	27	*	*	*	*	*	*	Southampton.
																							Ventnor.
LONDON. *p* Kew Observatory	18	69	26th	41	24th	64·6	49·5	56·7	+ 2·4	3	0·10	3	- 10	2 3	- 1·8	19	0	35	55·2	-1·1	56·1	-0·5	Kew Obs.
a Westminster	*27*	*70*	*28th*	*41*	*24th*	*66·3*	*50·8*	*58·2*	*+ 3·6*	*3*	*0·13*	*3*	*- 9*	*1·9*	*- 1·4*	*16*	0	39	*	*	*	*	*Westminster.*
a Greenwich	*155*	*71*	*26th*	*39*	*24th*	*65·9*	*49·0*	*57·0*	*+ 1·7*	*2*	*0·11*	*3*	*- 9*	*2·9*	*- 1·6*	*24*	0	32	*	*	*	*	*Greenwich.*
a Hampstead	*450*	*67*	*26th*	*39*	*24th*	*62·6*	*48·4*	*55 3*	—	*2*	*0·16*	*4*	—	*2·1*	—	*18*	1	29	*	*	*	*	*Hampstead.*
a Camden Square	*110*	*71*	*25th*	*40*	*24th*	*67·4*	*49·6*	*58·1*	—	*4*	*0·16*	*4*	—	*2·0*	—	*17*	0	39	*	*	*	*	*Camden Square.*
7. *a*, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	63	28th	43	24, 30	60·0	43·6	54·0	+ 2·4	2	0·10	3	- 20	3·0	—	25	*	*	*	*	*	*	Hoylake.
p Newton Rigg	559	67	28th	34	24th	61·6	44·3	52·5	+ 2·3	1	0·01	0	- 19	3·7	—	31	0	40	53·4	*	53·9	*	Aspatria.
p Stonyhurst	275	65	28th	39	24th	60·7	48·4	54·3	+ 2·5	1	0 03	1	- 24	4·4	+ 0·4	34	0	31	53·8	-0·7	54·1	+0·1	Newton Rigg.
p Blackpool	66	67	28th	40	24th	63·4	49·6	56·2	+ 2·4	2	0·14	4	- 15	3·6	- 0 2	30	0	36	*	*	*	*	Stonyhurst.
a Southport	37	69	28th	40	24th	63·9	48 9	55·0	+ 2·5	2	0·28	7	- 11	3·6	- 0·3	30	1	30	55·5	*	56·4	*	Blackpool.
a Liverpool (Bidston)	188	66	28th	42	24th	61·9	49 0	55·1	+ 1·6	1	0·16	4	- 13	4·4	+ 0·5	37	0	32	54·8	-1·1	56·6	-0·5	Southport.
a Hawarden Bridge	22	69	28th	38	24th	63 9	48·0	55·6	+ 1·3	1	0·10	3	- 10	*3·3*	—	*27*	*	*	*	*	*	*	*Liverpool.*
p Manchester (Whit. Pk.)	125	70	28th	41	24th	63·7	51·1	57·1	+ 3·7	1	0·01	0·3	- 17	*2·9*	—	*24*	0	39	55·1	-0·2	57·8	+1·2	*Manchester (City)*
														4·0	*+ 0·9*	*34*	*	*	*	*	*	*	*" (Whit. Park*
b. NORTH WALES.																							
p Llandudno	71	71	28th	45	24th	63·3	51·6	57·2	+ 2·4	1	0·30	8	- 8	2·4	- 1·5	20	*	*	*	*	*	*	Llandudno.
a Holyhead	15	70	28th	49	25th	63·3	53·1	58 0	+ 3·6	3	0·20	5	- 13	*3·9*	—	*33*	*	*	*	*	*	*	*Holyhead.*
p Bettws-y-Coed	148	71	28th	41	25th	63·7	49·3	56·2	+ 2·4	2	0 38	10	—	2·1	—	18	*	*	54·1	+1·0	53·0	-0·5	Bettws-y-Coed.
														3·6	—	30	*	*	*	*	*	*	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.				Mean for the Week.			Deviation from Normal.	Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date	Lowest.	Date.	Of Daily Max.	Of Daily Min.	Daily Mean.		No. of Rain-Days.	Rainfall in the week.		Deviation from Normal.	Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft		Earth 4 ft.		
																	Ground Frosts.	Lowest Reading.	Mean.	Deviation from average.	Mean.	Deviation from average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
3. *a*, SOUTH WALES														3·5	—	29	•	•	•	•	•	•	Aberystwyth.
a Llangammarch Wells	550	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	Llangammarch.
a Pembroke	149	66	28th	49	30th	61·9	54·1	57·8	+ 2·5	5	1·51	38	+ 19	2·6	- 1·8	22	•	•	•	•	•	•	Pembroke.
p Cardiff	202	68	25, 26	46	24, 25	63·6	51·1	57·1	+ 3·5	4	1·41	36	+ 14	*3·6*	—	*30*	0	40	57·4	+2·2	57·4	+0·7	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	72	25th	47	24th	65·0	52·9	58·7	+ 4·1	3	0·87	22	+ 5	*3·4*	—	*29*	0	44	•	•	•	•	*Clifton.*
a Shaftesbury	722	68	28th	45	30th	61·0	51·3	55·9	+ 2·1	4	2·13	54	+ 37	•	•	•	•	•	56·5	•	57·4	•	Shaftesbury.
a Arlington	613	68	28th	42	24th	62·6	50·4	56·2	+ 3·2	5	1·10	28	- 2	•	•	•	•	•	•	•	•	•	Arlington.
a Newquay	*190*	*68*	*25th*	*45*	*24th*	*64·3*	*51·9*	*57·8*	+ *2·0*	*5*	*0·69*	*18*	- *1*	2·8	- 1·8	24	•	•	58·7	•	58·5	•	Newquay.
a Cullompton	202	71	25, 28	36	24th	65·6	48·1	56·4	+ 2·4	5	2·10	53	+ 36	3·7	- 0·4	31	0	33	56·1	•	•	•	Cullompton.
a Portland Bill	12	65	26, 28	50	30th	62·4	55·3	58·7	+ 2·2	5	1·39	35	—	*4·3*	—	*36*	•	•	•	•	•	•	*Weymouth.*
p Plymouth	116	68	25, 26, 28	42	24th	65·1	52·4	58·5	+ 3·0	4	1·31	33	+ 15	4·2	- 0·4	35	•	•	57·7	- 0·1	57·9	•	Plymouth.
a Falmouth	167	65	26th	44	24th	62·1	52·1	56·9	+ 1·5	3	0·87	22	0	2·7	- 2·0	23	0	37	60·3	•	60·8	•	Falmouth.
9. IRELAND, N.																							
a Malin Head	208	67	26th	46	30th	61·0	52·0	56·3	+ 3·7	0	0·00	0	- 18	*4·6*	—	*39*	•	•	•	•	•	•	*Malin Head.*
a, West .. *a* Blacksod Point ..	327	66	24th	50	30th	62·1	53·0	57·3	+ 4·4	4	1·04	26	0	•	•	•	•	•	•	•	•	•	
p Markree Castle ..	122	67	26, 28	42	29th	63·9	50·0	56·6	+ 5·3	2	0·42	11	- 11	3·7	+ 0·3	31	0	39	57·3	•	56·1	•	Markree Castle.
a Birr Castle	175	67	26th	46	29th	61·7	52·4	56·8	+ 4·8	4	1·54	39	+ 25	*2·1*	*- 1·8*	*18*	•	•	•	•	•	•	*Birr Castle.*
b, East .. *p* Armagh	196	66	28th	45	29, 30	61·1	50·9	55·8	+ 4·2	1	0·13	3	- 12	2·8	- 0·8	24	0	40	57·0	+1·3	56·4	+0·8	Armagh.
a Donaghadee	101	62	28th	48	30th	59·0	53·0	55·9	+ 3·1	2	0·05	1	- 15	•	•	•	•	•	•	•	•	•	
10. IRELAND, S.														1·6	•	13	0	44	57·0	+1·2	56·3	+0·4	Trinity Coll.
p Dublin, City	47	64	26th	49	29th	61·1	52·9	56·8	+ 2·8	4	0·84	21	+ 8	1·9	- 2·5	*16*	0	37	•	•	•	•	Phœnix Park.
a East .. *a* Kilkenny	212	66	26th	49	29th	61·9	53·6	57·6	+ 5·3	5	1·66	42	+ 27	•	•	•	0	45	•	•	•	•	Dublin City.
a Waterford	20	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	
a Seskin, Carrick-on-Suir	*541*	*64*	*26th*	*48*	*30th*	*59·9*	*52·1*	*55·8*	—	*4*	*1·12*	*29*	—	*1·9*	—	*16*	0	47	•	•	•	•	*Seskin.*
a Birr Castle	175	67	26th	46	29th	61·7	52·4	56·8	+ 4·8	4	1·54	39	+ 25	2·1	- 1·8	18	•	•	•	•	•	•	Birr Castle.
a Foynes	50	66	24th	51	26, 30	62·4	53·4	57·7	+ 4·2	3	0·54	14	- 5	•	•	•	•	•	•	•	•	•	
a Cahir	198	65	26th	50	29, 30	61·4	53·1	57·1	+ 3·8	4	0·85	22	—	•	•	•	•	•	•	•	•	•	
b, West .. *a* Killarney	174	69	28th	51	29th	64·2	55·1	59·4	+ 5·9	6	0·80	20	- 4	•	•	•	•	•	•	•	•	•	
a Valencia	30	67	28th	51	24th	64·3	54·6	59·2	+ 4·6	5	0·68	17	- 9	3·3	- 0·7	28	•	•	•	•	•	•	Valencia.
a Roche's Point	32	65	29th	54	29th	61·0	56·3	58·5	+ 4·0	5	0·47	12	- 7	1·7	—	14	•	•	•	•	•	•	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	64	24th	51	26th	62·1	54·4	58·1	+ 1·0	5	0·80	20	+ 3	3·8	- 1·2	32	•	•	•	•	•	•	Scilly.
a Jersey, St. Aubins ..	25	73	28th	47	24th	67·3	54·4	60·5	+ 2·0	5	2·48	63	+ 44	4·5	- 0·9	38	•	•	•	•	•	•	St. Heliers.
a Guernsey (Villa Carey)	180	72	25, 28	50	24th	67·0	54·6	60·5	+ 2·7	4	2·52	64	+ 44	4·2	- 0·9	35	0	42	60·1	+0·7	60·6	+0·2	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, September 30th, 1916.

DISTRICT AND STATION.	Height.			Distribution of Wind.								Extreme Velocities.					
	Above Mean Sea Level.	Above Ground.	Above Building.	Gales, force 8 or more.		High Winds, forces 6 and 7.		Fresh or Moderate Winds, forces 4 and 5.	Light Winds, forces 2 and 3.	Calms and Light Airs, forces 0 and 1.	No Record.	Highest Hourly Wind.				Highest Gust with Date and Time, G.M.T.		
				Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Velocity.		Date and Hour, G.M.T.				
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.			m/s.	d.	h. m.
1. SCOTLAND, E.																		
Dyce	305	75	‡15**	—	—	—	—	—	99	69	0	—	5	28th	4h.	11	28th	3 . 24
Aberdeen*	153	105 { 37 / 52 }	‡ †	—	—	—	—	21	124	23	0	E. by S.	8	27th	9h.	12	27th	8 . 30
Edinburgh	485	39	31	—	—	—	—	20	114	34	0	NNE.	7	29th	21h.	11	29th	17 . 54
6. SCOTLAND, W.																		
Eskdalemuir	850	50	22	—	—	27th	7	48	80	33	0	ENE.	14	27th	9h.	20	27th	9 . 0
Paisley	188	81	52	—	—	—	—	27	94	41	6	ESE.	8	27th	12h.	18	27th	10 . 25
2. ENGLAND, N.E.																		
Alnwick Castle	340	70	17	—	—	—	—	—	90	78	0	SE. by S.	5	25th	15h.	10	29th	16 . 13
South Shields	72	61	12	—	—	—	—	64	81	23	0	NE.	10	29th	17h.	14	29th	21 . 58
Spurn Head	66	40	‡	—	—	27th	2	75	70	21	0	—	11	27th	14h.	15	27th	13 . 30
3. ENGLAND, E.																		
Gorleston	52	42	‡	—	—	29, 30	4	61	83	40	0	—	11	30th	7h.	15	30th	4 . 25
Shoeburyness	103	90	‡	—	—	—	—	60	86	22	0	SSE.	10	27th	14h.	14	27th	15 . 46
4. MIDLAND COUNTIES.																		
Benson	270	84	‡	—	—	—	—	57	71	40	0	S.	10	27th	16h.	15	27th	15 . 51
5. ENGLAND, S.E.																		
Dover	271	40	‡	—	—	29th	1	43	66	46	12	—	11	29th	17h.	16	29th	17 . 22
Warlingham	642	33	‡	—	—	—	—	1	114	53	0	—	6	27th	16h.	12	27th	8 . 37
Brighton	261	53	6	—	—	—	—	26	123	12	7	—	8	27th	12h.	14	27th	11 . 31
Kew Observatory ..	82	65 { 6 / 22 }	‡ †	—	—	—	—	10	112	46	0	E.	6	27th	9h.	13	27th	15 . 1
South Kensington ..	123	92	30	—	—	—	—	2	114	52	0	E. by N.	6	27th	7h.	10	27th	7 . 20
7. ENGLAND, N.W.																		
Carnforth	246	56	23	—	—	—	—	2	71	95	0	NE.	6	29th	12h.	12	29th	10 . 45
Southport	80	62	48	—	—	27th	8	78	82	0	0	E.	13	27th	13h.	20	27th	13 . 25
Holyhead*	60	40	‡	—	—	27, 29	23	87	47	11	0	E.	16	27th	10h.	20	27th	9 . 32
8. ENGLAND, S.W.																		
Pendennis Castle§ ..	256	65	24	—	—	25 to 27	22	65	67	14	0	ESE.	14	25th	14h.	18	25th	13 . 35
Plymouth	185	88	2	—	—	—	—	28	109	31	0	—	10	25th	14h.	16	25th	14 . 40
Lyme Regis	556	61	‡	—	—	—	—	42	69	57	0	—	11	25th	17h.	14	25th	16 . 50
10. IRELAND, S.																		
Quilty	100	40	‡	25th	1	24 to 26	25	84	42	0	16	—	17	25th	22h.	25	25th	22 . 5
Weaver Pt.	160	30	‡	25th	2	25 to 27	15	87	64	0	0	—	18	25th	24h.	28	25th	23 . 9
11. ENGLISH CHANNEL.																		
Scilly*	150	{ 32 / 19 }	‡	—	—	25th	5	60	71	32	0	SSE.	13	25th	16h.	17	25th	16 . 18

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer. ** Above tops of trees.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory.
† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

THIRTY-NINTH WEEK—September 24th to September 30th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
			Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	66	38	86·8	82·2	84·4	+ 1·6	74	+ 18	0	− 2	2	− 3	0·03	1	− 31	2·3	−0·7	19	1017
Eastern.																			
1. SCOTLAND, EAST ...	71	32	87·2	80·8	83·8	+ 0·7	67	+ 8	0	− 2	3	− 2	0·16	4	− 13	1·8	−1·6	15	1017
2. ENGLAND, N.E.	73	34	88·8	82·0	85·3	+ 1·0	85	+ 12	0	0	1	− 3	0·04	1	− 9	3·9	−0·1	33	1015
3. ENGLAND, EAST ...	71	35	90·7	82·8	86·6	+ 1·6	101	+ 19	0	− 1	2	− 2	0·08	2	− 11	4·2	−0·2	35	1013
4. MIDLAND COUNTIES ...	73	36	90·6	81·7	85·9	+ 1·6	92	+ 17	0	− 1	2	− 2	0·17	4	− 10	2·9	−0·9	25	1013
5. ENGLAND, S.E.	72	35	91·1	83·7	87·2	+ 1·4	109	+ 17	0	0	4	0	0·59	15	− 1	3·4	−1·1	29	1012
Western.																			
6. SCOTLAND, WEST ...	71	36	88·4	82·3	85·3	+ 1·5	85	+ 18	0	− 1	2	− 3	0·19	5	− 24	2·3	−1·2	19	1016
7. ENGLAND, N.W.	71	34	90·0	82·6	86·1	+ 1·5	95	+ 18	0	0	2	− 2	0·15	4	− 17	3·3	−0·4	28	1012
8. ENGLAND, S.W.	72	36	90·4	84·1	87·1	+ 1·7	108	+ 22	0	0	4	0	1·41	36	+ 13	3·3	−0·9	27	1010
9. IRELAND, NORTH ...	67	42	89·4	84·1	86·6	+ 2·4	102	+ 31	0	0	2	− 3	0·53	13	− 9	3·3	−0·1	27	1011
10. IRELAND, SOUTH ...	69	46	89·8	85·2	87·4	+ 2·5	111	+ 31	0	0	5	0	0·92	23	+ 5	2·3	−1·8	19	1008
11. ENGLISH CHANNEL ...	73	47	91·6	85·5	88·4	+ 1·2	124	+ 16	0	0	5	0	1·93	49	+ 29	4·2	−1·0	35	1009

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 4 Weeks, September 3rd to September 30th, 1916.

0. SCOTLAND, NORTH ...	71	33	87·1	81·1	83·9	0·0	273	− 1	0	− 3	17	− 2	2·18	56	− 51	2·6	−0·8	21	1016
Eastern.																			
1. SCOTLAND, EAST ...	74	28	88·3	80·3	84·1	− 0·2	278	− 16	0	− 4	13	− 2	1·57	39	− 16	3·7	−0·3	29	1017
2. ENGLAND, N.E.	74	33	89·1	81·7	85·3	− 0·1	338	− 8	0	0	9	− 4	1·49	39	− 7	4·1	−0·4	32	1017
3. ENGLAND, EAST ...	71	35	89·7	82·1	85·8	− 0·5	362	− 30	0	− 1	11	− 1	1·21	31	− 15	3·7	−1·3	30	1016
4. MIDLAND COUNTIES ...	73	33	89·9	81·6	85·5	0·0	353	− 7	0	− 2	9	− 3	1·15	29	− 19	3·4	−1·0	27	1017
5. ENGLAND, S.E.	73	32	90·6	82·9	86·6	− 0·4	404	− 21	0	0	10	− 2	1·45	38	− 15	4·3	−0·8	34	1017
Western.																			
6. SCOTLAND, WEST ...	72	35	88·5	82·0	85·1	+ 0·3	332	+ 14	0	− 1	14	− 1	1·87	48	− 49	3·6	−0·6	28	1017
7. ENGLAND, N.W.	75	34	89·1	83·0	85·9	+ 0·2	370	+ 9	0	0	12	− 2	2·16	56	− 14	3·2	−1·1	25	1018
8. ENGLAND, S.W.	72	34	90·3	83·7	86·8	+ 0·4	418	+ 23	0	0	9	− 5	2·17	55	− 18	3·8	−1·0	31	1018
9. IRELAND, NORTH ...	73	35	89·1	83·4	86·2	+ 1·0	382	+ 47	0	0	14	− 3	1·77	44	− 31	2·7	−1·1	22	1018
10. IRELAND, SOUTH ...	77	39	90·1	84·1	87·0	+ 1·1	423	+ 55	0	0	16	+ 1	1·90	49	− 18	3·0	−1·5	24	1019
11. ENGLISH CHANNEL ...	73	43	90·8	85·5	88·0	0·0	476	0	0	0	10	− 5	2·69	69	+ 8	5·1	−0·9	41	1018

THE YEAR.—Aggregates, &c., for the Period of 39 Weeks, January 2nd to September 30th, 1916.

0. SCOTLAND, NORTH ..	81	20	84·2	78·4	81·2	+ 0·1	1767	− 61	454	−106	183	+ 4	36·15	916	+ 11	3·0	−0·6	22	1010
Eastern.																			
1. SCOTLAND, EAST ...	82	7	85·0	77·8	81·2	− 0·2	1893	−171	585	− 39	163	+15	29·16	741	+189	3·5	−0·8	26	1011
2. ENGLAND, N.E.	84	20	86·2	79·1	82·5	+ 0·3	2346	+ 50	379	− 96	140	+ 7	19·71	503	+ 62	3·9	−0·7	30	1012
3. ENGLAND, EAST ...	83	24	87·0	79·5	83·1	+ 0·2	2598	− 54	353	−169	143	+15	19·98	506	+ 84	4·1	−0·9	32	1013
4. MIDLAND COUNTIES ...	84	21	87·2	79·0	82·9	+ 0·2	2566	− 30	405	−130	136	+ 9	20·23	516	+ 42	3·8	−0·6	29	1013
5. ENGLAND, S.E.	86	15	87·5	80·0	83·6	+ 0·1	2798	− 46	294	− 87	136	+14	20·75	528	+ 67	4·7	−0·4	36	1014
Western.																			
6. SCOTLAND, WEST ...	83	17	85·8	79·1	82·3	+ 0·1	2243	+ 22	365	− 61	162	+ 7	30·12	769	− 60	4·2	−0·2	32	1012
7. ENGLAND, N.W.	83	8	86·2	79·9	82·9	+ 0·2	2449	+ 21	310	− 76	145	+ 3	24·28	618	+ 9	4·1	−0·3	31	1013
8. ENGLAND, S.W.	84	17	87·1	80·2	83·4	0·0	2675	− 12	279	− 22	143	+ 4	27·60	707	+ 56	4·7	−0·3	36	1014
9. IRELAND, NORTH ...	81	18	85·8	79·5	82·5	0·0	2298	− 24	334	− 11	174	+ 5	26·32	673	− 11	3·7	−0·3	28	1012
10. IRELAND, SOUTH ...	85	20	87·1	80·3	83·5	+ 0·1	2709	+ 55	244	− 15	181	+31	26·88	679	− 28	4·3	−0·2	33	1015
11. ENGLISH CHANNEL ...	80	30	87·4	82·0	84·6	0·0	3064	+ 2	85	− 24	141	− 7	22·57	571	+ 38	5·5	−0·5	43	1015
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. R. CORLESS, M.A., Acting Superintendent of Statistics, South Kensington, S.W., October 5th, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 40. SUNDAY, OCTOBER 1ST, TO SATURDAY, OCTOBER 7TH, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE FORTIETH WEEK OF 1916.

The week showed notable departures from the normal in each of the three elements temperature, rainfall and sunshine, temperature being high for the time of the year in nearly all districts, rainfall heavy and sunshine very scanty. In Scotland North and East the temperature excess was not large, but in most other districts it approached 3 a. and was as much as 4·0 a. in Ireland South. An extreme of 293 a. or above was reached at many stations during the middle or latter part of the week, the highest registered being 294·7 a. at Hawarden and Llandudno on the 6th. At several stations in Scotland night temperatures fell below the freezing point. A minimum of 269 a. was measured at Balmoral on the night of the 2nd to 3rd, and 268·5 a. at West Linton on the previous night. Some high night minima were experienced in other parts of the country and at a good many stations temperature did not fall below 288·5 a. on the night of the 5th. Rainfall exceeded the average by from 30 to 40 mm. in the western districts but was slightly deficient in Scotland North and England East. In Ireland South the total amounted to 325 per cent. of the normal. Heavy falls exceeding 25 mm. in the day were very numerous and 40 mm. or more fell at Pembroke on the 2nd (41 mm.), at Killarney on the 5th (42 mm.) and at Ballinacurra on the 1st (46 mm.). At Bettws-y-Coed 25 mm. was exceeded on the 2nd, 5th and 6th and a total of 115 mm. was recorded in the week. At Rothesay 37 mm. fell in the 7 hours commencing at 20 h. on the 5th. Sunshine measurements were below the normal in all districts, the greatest departure being −3·3 hours per day in the English Channel. A few reports of thunder and lightning were received from different parts of the country during the latter part of the week. Brilliant aurora was observed from Liverpool on Friday evening. Sea temperatures were mostly somewhat above the average, but a little below at Port Erin and Wick.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.
		m/s		m/s		m/s		m/s		m/s		m/s		m/s		m/s
South	3	3·4	6	2·9	6	3·2	6	3·5	5	5·9	6	4·4	6	4·4	7	4·6
North	4	3·7	1	2·0	1	1·5	1	1·5	1	1·3	½	2·7	½	0·2	0	—
West	2	2·4	4	4·3	6	4·1	4	3·7	5	6·1	6	6·9	4	7·7	4	4·8
East	4	2·1	2	1·8	1	3·3	3	1·6	2	4·0	1	4·2	3	3·3	3	2·4
Calm	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c is printed on a separate sheet. *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	**1.** Scotland, E.	**2.** England, N.E.	**3.** England, E.	**4.** Midland Counties	**5.** England, S.E.	**6.** Scotland, W.	**7.** England, N.W.	**8.** England, S.W.	**9.** Ireland, N.	**10.** Ireland, S.	**11.** English Channel.
Comparison with normal for the time of year ...	Warmth ...	Moderate	Moderate	Unusual	Unusual	Very unusual	Very unusual	Unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual
	Rainfall ...	Moderate	Heavy	Heavy	Moderate	Heavy	Heavy	Very heavy	Very heavy	Very heavy	Very heavy	Very heavy	Moderate
	Sunshine ...	Scanty	Scanty	Very scanty	Very scanty	Scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty	Very scanty

II.—THE AUTUMN SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

AUTUMN. 5 weeks from Sept. 3rd, 1916.	Warmth ...	2, 1, 2	2, 2, 1	3, 1, 1	2, 1, 2	3, 1, 1	2, 2, 1	3, 1, 1	3, 1, 1	3, 2, 0	3, 2, 0	3, 2, 0	2, 2, 1
	Rainfall ...	0, 3, 2	1, 3, 1	2, 1, 2	1, 2, 2	1, 2, 2	1, 2, 2	1, 2, 2	1, 2, 2	2, 1, 2	1, 3, 1	1, 2, 2	1, 3, 1
	Sunshine ...	1, 1, 3	1, 2, 2	0, 3, 2	0, 1, 4	0, 1, 4	0, 2, 3	0, 2, 3	0, 1, 4	0, 1, 4	0, 2, 3	0, 1, 4	0, 1, 4

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.) and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914. Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(9328 - 19.) Wt. 79a—736. 450. 10/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts	Lowest Reading.	Mean.	Deviation from Average.	Mean.	Deviation from Average.	
0. SCOTLAND, N.	Ft.	°F.	—	°F.	—	°F.	°F.	°F.	°F.	—	in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
p Baltasound	*31*	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	*Baltasound.*
a Lerwick	54	51	4th	38	3rd	49·1	42·0	45·5	- 2·2	5	0·56	14	—	1·3	- 1·8	12	*	*	*	*	*	*	Deerness.
a Stornoway	51	55	3-5	33	4th	53·7	42·6	48·0	- 0·3	4	0·41	11	- 19	1·8	- 1·4	16	*	*	*	*	*	*	Stornoway.
a Castlebay, Barra Isd.	*37*	*58*	*4th*	*47*	*2nd*	*56·3*	*49·3*	*52·9*	+ *2·8*	*4*	*0·67*	*17*	—	*3·0*	—	*27*	*	*	*	*	*	*	*Castlebay.*
a Wick	81	62	4th	39	1st	53·1	44·7	48·8	- 0·1	6	0·28	7	- 10	*	*	*	*	*	*	*	*	*	
p Strathpeffer	200	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	Strathpeffer.
p Glencarron	500	57	4th	31	3rd	53·3	41·3	47·1	- 0·2	5	1·68	43	- 10	*	*	*	*	*	*	*	*	*	
p Fort Augustus	68	59	4th	30	3rd	55·7	44·0	49·7	+ 0·4	5	1·45	37	+ 13	2·4	0·0	21	*	*	*	*	*	*	Fort Augustus.
p Fort William	171	59	4th	33	2nd	55·9	44·7	50·1	- 0·2	5	2·13	54	+ 9	*	*	*	*	*	*	*	*	*	
1. SCOTLAND, E.																							
p Gordon Castle	101	70	4th	32	3rd	56·3	43·6	49·8	- 0·1	3	1·31	33	+ 15	1·3	—	12	2	24	52·1	- 0·2	52·8	0·0	Crathes.
a Nairn	82	64	4th	29	3rd	54·9	41·9	48·2	- 0·7	5	1·82	46	+ 33	*1·9*	—	*17*	*	*	*	*	*	*	*Gordon Castle.*
a Aberdeen	46	60	4th	40	3rd	56·3	46·9	51·5	+ 1·6	4	0·99	25	+ 9	2·0	—	18	*	*	*	*	*	*	Nairn.
a Balmoral	930	63	4th	25	3rd	55·0	40·1	47·3	+ 1·1	3	1·26	32	+ 13	1·3	- 2·3	12	*	*	*	*	51·6	0·0	Aberdeen.
p Crieff	432	62	7th	32	2nd	56·7	41·7	49·0	- 0·9	3	1·38	35	+ 14	*	*	*	1	22	*	*	*	*	Balmoral.
														1·3	—	12	*	*	*	*	*	*	Balruddery.
a Leith	18	63	5, 6	37	2, 3	58·6	45·6	51·9	+ 0·9	4	1·26	32	+ 21	*	*	*	*	*	*	*	*	*	
a West Linton	769	62	5, 6	24	2nd	56·1	39·7	47·7	+ 0·9	6	1·79	45	—	*1·7*	—	*15*	3	19	*	*	*	*	*West Linton.*
p Marchmont	498	63	6th	34	2nd	56·3	44·7	50·3	+ 0·8	7	1·66	42	+ 23	1·3	- 2·0	12	1	29	*	*	*	*	Marchmont.
a Edinburgh	*441*	*64*	*6th*	*38*	*3rd*	*57·1*	*46·4*	*51·6*	—	*5*	*1·54*	*39*	—	2·5	—	22	1	29	*	*	*	*	Edinburgh.
6. *a*, SCOTLAND, W.																							
a Poltalloch	132	58	5th	—	—	56·1	—	—	—	6	2·37	60	+ 31	*	*	*	*	*	*	*	*	*	
p Glasgow Observatory	180	61	6th	34	2nd	55·7	46·4	50·9	+ 1·1	6	2·36	60	+ 40	1·4	- 1·3	12	1	25	*	*	*	*	Glasgow.
p Rothesay	170	58	5, 6	40	2nd	54·9	46·9	50·8	+ 0·1	6	2·14	54	+ 29	*1·1*	—	*10*	0	32	51·6	*	53·3	+0·6	*Rothesay.*
a Kilmarnock	90	61	5th	31	2nd	58·1	46·1	51·9	+ 1·7	6	1·75	44	—	*1·3*	—	*18*	*	*	52·1	*	53·1	*	*Kilmarnock.*
a Colmonell	170	61	5th	39	2nd	57·9	47·7	52·7	+ 1·8	6	1·78	45	+ 20	*	*	*	0	37	*	*	*	*	
a Dumfries	160	61	5, 6	35	2nd	57·4	47·7	52·4	+ 1·8	6	2·20	56	+ 36	*0·9*	—	*8*	1	28	53·5	*	55·3	*	*Dumfries.*
Eskdalemuir	*799*	*58*	*5, 6*	*30*	*2nd*	*54·9*	*42·1*	*48·3*	—	*6*	*3·15*	*80*	—	*1·1*	—	*10*	*	*	*	*	*	*	*Eskdalemuir.*
p Cally, Gatehouse	120	60	3, 5-7	42	2nd	58·4	41·7	51·4	+ 1·5	6	3·42	87	+ 62	*	*	*	*	*	*	*	*	*	
b, I. OF MAN. *p* Douglas	277	61	5th	50	1-3, 7	57·4	52·0	54·6	+ 3·5	7	3·88	99	+ 74	1·0	- 2·9	9	0	46	*	*	*	*	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	66	6th	32	2nd	58·4	45·1	51·6	+ 1·8	6	1·37	35	+ 17	1·6	—	14	1	25	50·2	- 1·4	51·8	- 0·1	Cockle Park.
a Tynemouth	71	65	6th	37	2nd	57·4	47·3	52·2	+ 1·5	5	1·10	28	+ 13	*	*	*	*	*	*	*	*	*	Tynemouth
p Durham	336	65	6th	33	2nd	57·0	46·9	51·3	+ 1·3	6	0·87	22	+ 7	1·0	- 2·4	9	1	27	*	*	*	*	Durham.
a North ..*a* Rounton	249	66	6th	40	2nd	58·7	48·0	53·2	+ 3·4	6	0·92	23	+ 9	*	*	*	1	30	53·6	*	*	*	Rounton.
a West Witton	*605*	*65*	*6th*	*43*	*1st*	*57·6*	*47·9*	*52·6*	—	*6*	*1·99*	*51*	—	*	*	*	0	42	52·3	*	52·0	*	*West Witton.*
p Scarborough†	100	67	5, 6	45	1st	60·9	50·0	55·3	+ 3·4	6	1·16	29	+ 14	1·4	—	12	*	*	*	*	54·7	*	Scarborough.
p York	56	67	6th	45	1st	60·1	48·4	54·1	+ 2·7	7	1·10	28	+ 15	1·0	- 2·3	9	*	*	55·1	+0·4	55·4	+0·4	York.
b, South ..*a* Spurn Head	26	65	4, 6	48	1, 2	60·1	51·6	55·7	+ 3·0	5	0·47	12	+ 1	*1·5*	—	*13*	*	*	*	*	*	*	*Spurn Head.*
a Lincoln	58	67	4th	46	1st	61·9	51·4	56·5	+ 5·0	4	0·53	13	0	*	*	*	*	*	54·7	+0·2	55·9	+0·8	Lincoln.
a Fulbeck	180	66	4th	45	1st	63·1	?51·1	?56·9	+ 5·2	5	0·60	15	+ 3	2·6	—	23	0	46	56·2	+1·6	55·3	- 0·4	Rauceby.
3. ENGLAND, E.														2·5	—	22	*	*	*	*	*	*	Skegness.
p Cromer	196	66	4, 6	47	2nd	61·7	51·4	56·4	+ 3·9	6	0·39	10	—	2·2	—	19	*	*	*	*	*	*	Cromer.
p Little Massingham	280	64	4-6	43	1st	60·6	49·7	55·0	+ 2·9	6	0·62	16	0	1·9	- 1·9	17	0	38	*	*	*	*	Lit. Massingham.
a, North ..*a* Yarmouth	13	67	5th	48	1, 2	62·1	52·7	57·3	+ 4·6	4	0·39	10	- 5	2·0	—	18	*	*	53·4	-0·2	56·1	- 1·7	Yarmouth.
a Norwich	93	66	4, 5	41	1st	62·0	50·6	56·1	+ 2·8	6	0·56	14	—	*2·2*	—	*19*	0	35	55·5	*	*	*	*Norwich.*
a Geldeston	37	68	4th	41	1st	63·3	49·3	56·1	+ 3·8	5	0·31	8	- 7	2·0	- 2·3	18	*	*	*	*	*	*	Geldeston.
p Cambridge	41	67	4, 5	42	1st	63·6	51·7	57·5	+ 5·4	4	0·56	14	+ 2	2·5	- 1·6	22	0	37	56·6	+0·8	56·6	-0·5	Cambridge.
b, South ..*a* Clacton-on-Sea	54	67	5th	44	1st	62·1	52·9	57·4	+ 4·0	4	0·39	10	—	2·8	—	25	0	41	56·7	-0·2	57·4	-0·2	Clacton.
a Rothamsted	424	66	5th	43	2nd	60·4	50·4	55·3	+ 4·3	7	0·98	25	+ 10	2·4	- 1·7	21	0	35	54·9	*	*	*	Rothamsted.
p Tottenham	51	67	4, 5	46	2nd	62·9	53·6	58·1	+ 4·7	6	0·85	22	—	2·5	—	*22*	0	40	*	*	58·0	+0·5	Tottenham.
4. MIDLAND COUNTIES.																							
a North ..*a* Harrogate	479	65	6th	42	1st	57·7	48·3	52·9	+ 2·6	7	1·62	41	+ 24	1·5	—	13	0	38	52·9	+0·2	53·2	+0·4	Harrogate.
p Buxton	*987*	*61*	*3rd*	*43*	*1st*	*57·7*	*49·1*	*53·3*	+ *5·0*	*6*	*2·31*	*59*	+ *34*	*1·3*	—	*11*	0	43	52·5	-0·4	53·5	+0·5	*Buxton.*
a Bawtry	65	65	4, 6	45	1st	60·6	50·9	55·6	+ 4·4	5	0·52	13	+ 1	*	*	*	*	*	*	*	*	*	Sheffield.
a Nottingham	82	66	4th	46	1, 2	62·0	51·1	56·4	+ 4·6	6	0·83	21	+ 8	2·3	- 0·9	20	0	38	54·5	*	54·2	*	Worksop.
b, East ..*p* Birmingham, Edgbsn.	535	66	3rd	45	1st	61·1	51·7	56·3	+ 5·3	7	1·24	32	+ 18	2·1	—	18	0	43	55·2	+1·1	55·3	-0·2	Nottingham.
a Raunds	203	67	5th	39	1st	62·0	49·1	55·4	+ 3·6	5	0·65	16	—	*2·2*	—	19	0	41	53·3	+0·6	52·9	+0·1	Birmingham.
p Oxford	208	67	4th	45	1st	62·3	53·1	57·6	+ 5·5	7	1·32	34	+ 20	*2·9*	—	*25*	2	29	58·7	*	56·5	*	*Raunds.*
														2·3	- 1·7	20	0	40	*	*	*	*	Oxford
a Cheadle	646	64	3rd	43	1st	59·7	49·0	54·2	+ 4·2	6	1·37	35	+ 18	*	*	*	0	39	*	*	*	*	Cheadle.
c, West ..*p* Shrewsbury	191	70	3rd	42	1st	63·9	47·7	55·6	+ 3·4	7	1·22	31	—	*	*	*	0	42	*	*	*	*	Shrewsbury.
a Hereford§	291	65	2nd	43	1, 2	61·7	51·4	56·4	+ 4·4	6	1·36	35	+ 22	*2·3*	—	*20*	0	35	56·5	*	57·0	*	*Malvern.*§
a Bath	66	69	3rd	45	1st	65·0	53·3	59·0	+ 5·5	7	2·06	52	+ 37	2·0	—	18	*	*	58·8	+1·4	58·4	-0·1	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	66	6, 7	44	2nd	63·6	51·4	57·3	+ 6·7	7	1·66	42	+ 27	2·0	—	18	0	47	58·8	+1·6	58·1	+0·8	Worthing.
a Margate	53	67	5th	51	2nd	62·9	54·6	58·6	+ 4·1	5	0·43	11	- 3	1·7	- 1·8	15	0	39	57·0	*	56·0	*	Marlborough.
a Wisley, Surrey	150	67	4, 5	46	1, 2	63·6	52·9	58·1	+ 4·9	6	1·02	26	—	2·7	- 1·4	24	0	46	58·4	+3·0	59·1	+2·4	Margate.
p Salisbury (Wilton)	180	67	5th	46	1st	63·6	53·4	58·4	+ 6·1	5	2·16	55	+ 38	2·5	—	22	0	38	57·0	+1·2	56·1	-1·0	Wisley.
a Tunbridge Wells	354	68	5th	44	1st	62·1	52·9	57·4	+ 5·1	7	1·09	28	+ 10	*	*	*	0	44	58·4	*	*	*	Salisbury.
														1·5	- 2·8	13	0	36	56·9	+0·7	57·5	*	Tunbridge Wells.
a Dungeness	21	66	5th	49	1st	62·6	55·9	59·2	+ 4·3	5	1·22	31	+ 16	*	*	*	*	*	*	*	*	*	Littlestone.
p Hastings	178	66	5th	47	1st	62·3	54·9	58·5	+ 4·0	7	0·85	22	+ 3	1·9	- 2·7	17	0	44	58·7	*	58·2	*	Hastings.
p Southampton	64	67	5th	49	1st	63·0	56·0	59·4	+ 5·2	7	1·77	45	+ 28	1·9	- 2·5	17	0	44	*	*	*	*	Southampton.
a Ventnor	59	65	3, 5	52	1st	62·9	57·3	60·0	+ 3·9	7	1·86	47	+ 32	1·1	- 3·6	10	*	*	*	*	*	*	Ventnor.
LONDON. *p* Kew Observatory	18	66	4, 5	47	2nd	62·8	53·6	58·1	+ 5·3	6	0·88	22	+ 8	2·5	- 1·3	22	0	38	56·5	+0·5	55·8	-0·5	Kew Obs.
a Westminster	*27*	*69*	*5th*	*48*	*1, 2*	*64·5*	*53·9*	*59·0*	+ *6·4*	*5*	*0·74*	*19*	+ *6*	*1·8*	- *1·1*	*16*	0	42	*	*	*	*	*Westminster.*
a Greenwich	*155*	*69*	*5th*	*46*	*2nd*	*64·3*	*52·9*	*58·4*	+ *4·6*	*7*	*0·67*	*17*	+ *4*	*2·8*	- *1·2*	*25*	0	37	*	*	*	*	*Greenwich.*
a Hampstead	*450*	*66*	*5th*	*44*	*1st*	*61·5*	*51·3*	*56·3*	—	*7*	*0·89*	*23*	—	*2·1*	—	*18*	0	34	*	*	*	*	*Hampstead.*
a Camden Square	*110*	*69*	*5th*	*46*	*2nd*	*64·6*	*53·1*	*58·7*	—	*6*	*0·79*	*20*	—	*2·4*	—	*21*	0	45	*	*	*	*	*Camden Square.*
7. *a*, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	61	6th	39	2nd	56·4	47·3	51·7	+ 1·3	6	2·29	58	+ 35	2·3	—	20	*	*	*	*	*	*	Hoylake.
p Newton Rigg	559	63	6th	39	2nd	56·9	48·0	52·3	+ 3·3	6	2·23	57	+ 37	0·5	—	4	0	39	53·1	*	53·5	*	Aspatria.
p Stonyhurst	375	65	6th	45	1st	57·7	50·6	54·1	+ 3·9	6	2·91	74	+ 48	0·2	- 3·1	2	0	36	53·7	0·0	53·6	▲0·0	Newton Rigg.
p Blackpool	66	64	6th	46	1st	59·9	52·3	56·0	+ 3·9	7	1·56	40	+ 19	0·2	- 3·3	2	0	43	*	*	*	*	Stonyhurst.
a Southport	37	67	6th	46	1st	60·9	52·1	56·4	+ 4·6	6	1·52	39	+ 19	0·7	- 2·8	6	0	44	55·2	*	55·7	*	Blackpool.
a Liverpool (Bidston)	188	68	6th	46	1st	61·6	50·9	56·1	+ 3·9	6	1·38	35	+ 19	1·3	- 2·2	11	0	44	55·0	+0·2	56·1	-0·3	Southport.
a Hawarden Bridge	22	71	6th	45	1st	64·9	52·7	58·6	+ 5·7	6	1·10	28	+ 13	*1·7*	—	*15*	*	*	*	*	*	*	*Liverpool.*
p Manchester (Whit. Pk.)	125	67	6th	47	1st	61·9	51·7	56·7	+ 5·3	6	1·50	38	+ 20	*0·5*	—	*4*	0	44	55·3	+0·6	57·2	+1·1	*Manchester (City)*
														0·7	- *2·1*	*6*	*	*	*	*	*	*	*„ (Whit. Park).*
b, NORTH WALES.																							
p Llandudno	71	71	6th	44	1st	62·3	53·3	57·7	+ 4·4	7	1·54	39	+ 21	1·9	- 1·6	17	*	*	*	*	*	*	Llandudno.
a Holyhead	15	63	3rd	49	1, 2	60·6	53·3	56·8	+ 3·8	7	1·85	47	+ 27	*1·5*	—	*13*	*	*	*	*	*	*	*Holyhead.*
p Bettws-y-Coed	148	63	5, 6	39	1st	59·9	51·0	55·3	+ 2·7	7	4·53	115	—	0·3	—	3	*	*	54·1	+1·4	53·4	+0·1	Bettws-y-Coed.
														0·5	—	4	*	*	*	*	*	*	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.		Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														0·7	—	6	•	•	•	•	•	•	
a Llangammarch Wells	550	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	Aberystwyth.
a Pembroke	149	61	6th	49	1st	59·4	54·9	57·1	+ 3·2	7	3·52	89	+ 69	1·3	- 2·7	11	•	•	•	•	•	•	Llangammarch.
p Cardiff	202	65	3rd	47	1st	61·6	54·0	57·7	+ 5·7	7	3·73	95	+ 71	*1·8*	—	*16*	0	42	57·6	+2·5	57·1	+0·6	Pembroke.
																							Cardiff.
b, ENGLAND S.W.																							
a Clifton	229	67	3, 4	47	1st	63·7	54·1	58·8	+ 6·0	7	2·70	69	+ 50	*1·5*	—	*13*	0	46	•	•	•	•	*Clifton.*
a Shaftesbury	722	64	5th	46	1st	61·1	52·0	56·4	+ 4·4	7	1·43	36	+ 18	•	•	•	•	•	57·1	•	57·5	•	Shaftesbury.
a Arlington	613	64	3rd	49	1st	61·0	53·9	57·4	+ 5·7	6	2·56	65	+ 32	•	•	•	•	•	•	•	•	•	Arlington.
a Newquay	*190*	*67*	*3rd*	*48*	*1st*	*63·4*	*56·1*	*59·6*	*+ 5·2*	7	*1·36*	*35*	*+ 16*	1·2	- 3·1	11	•	•	59·6	•	58·2	•	Newquay.
a Cullompton	202	68	3rd	46	1st	64·6	55·4	59·9	+ 7·6	7	1·42	36	+ 18	1·5	- 2·2	13	0	42	58·2	•	•	•	Cullompton.
a Portland Bill	12	63	6th	49	1st	61·9	57·0	59·4	+ 4·5	7	1·50	38	—	*1·4*	—	*12*	•	•	•	•	•	•	*Weymouth.*
p Plymouth	116	65	5th	53	7th	62·1	57·0	59·5	+ 5·4	7	2·29	58	+ 39	0·7	- 3·4	6	•	•	59·1	•	58·0	•	Plymouth.
a Falmouth	167	66	3rd	53	1, 7	62·6	56·7	59·6	+ 5·4	7	1·97	50	+ 26	1·5	- 2·7	13	0	48	61·0	+3·9	60·4	•	Falmouth.
9. IRELAND. N.																							
a, West .. *a* Malin Head ..	208	65	3rd	47	1st	58·4	50·7	54·4	+ 2·9	5	1·23	32	+ 14	*1·2*	—	*11*	•	•	•	•	•	•	*Malin Head.*
a Blacksod Point ..	327	61	5th	46	1st	58·4	52·0	55·1	+ 2·8	7	3·15	80	+ 53	•	•	•	•	•	•	•	•	•	
p Markree Castle ..	122	65	5th	47	1, 6, 7	61·1	50·7	55·8	+ 6·0	7	3·25	83	+ 60	1·2	- 2·0	11	0	43	56·9	•	56·0	•	Markree Castle.
a Birr Castle	175	67	3, 6	49	1, 7	62·9	53·7	58·2	+ 7·7	7	2·24	57	+ 42	*1·5*	- *3·2*	*13*	•	•	•	•	•	•	*Birr Castle.*
b, East .. *p* Armagh	196	66	3rd	47	1st	60·1	51·1	55·5	+ 5·0	7	2·64	67	+ 52	1·7	- 1·6	15	0	47	56·1	+1·3	56·1	+0·9	Armagh.
a Donaghadee	101	66	3rd	48	1st	59·0	51·4	55·1	+ 3·2	6	2·48	63	+ 47	•	•	•	•	•	•	•	•	•	
																	0	47	57·1	+2·0	56·1	+0·6	Trinity Coll.
														2·9	- 1·1	25	0	46	•	•	•	•	Phœnix Park.
10. IRELAND, S.														•	•	•	0	46	•	•	•	•	Dublin City.
a, East .. *p* Dublin, City	47	69	6th	51	1, 7	62·7	54·6	58·5	+ 6·1	7	1·84	47	+ 33	•	•	•	•	•	•	•	•	•	
a Kilkenny	212	69	6th	49	1, 7	63·9	54·4	59·0	+ 7·7	7	2·03	52	+ 37	•	•	•	•	•	•	•	•	•	
a Waterford	20	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	
a Seskin, Carrick-on-Suir	*541*	*66*	*6th*	*48*	*1st*	*61·4*	*52·7*	*56·9*	—	7	*3·06*	*78*	—	*3·2*	—	*28*	0	45	•	•	•	•	*Seskin.*
b, West .. *a* Birr Castle	175	67	3, 6	49	1, 7	62·9	53·7	58·2	+ 7·7	7	2·24	57	+ 42	1·5	- 2·2	13	•	•	•	•	•	•	Birr Castle.
a Foynes	50	65	3, 5, 6	47	1, 2	63·3	53·1	58·1	+ 5·9	7	2·54	64	+ 44	•	•	•	•	•	•	•	•	•	
a Cahir	199	68	6th	45	1, 7	63·9	52·0	57·8	+ 5·5	7	2·22	74	—	•	•	•	•	•	•	•	•	•	
a Killarney	174	67	3rd	51	7th	64·1	56·4	60·1	+ 8·0	7	3·04	77	+ 49	•	•	•	•	•	•	•	•	•	
a Valencia	30	65	3rd	52	7th	62·9	57·0	59·9	+ 6·1	6	3·04	77	+ 49	1·6	- 2·2	14	•	•	•	•	•	•	Valencia.
a Roche's Point	32	65	3, 4	52	7th	62·6	56·3	59·4	+ 6·0	7	2·91	74	+ 54	2·5	—	22	•	•	•	•	•	•	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	63	3rd	54	1st	61·3	56·7	58·9	+ 3·0	7	1·14	29	+ 11	1·5	- 2·9	13	•	•	•	•	•	•	Scilly.
a Jersey, St. Aubins ..	25	68	3, 4, 6	55	1, 2	64·3	58·1	61·1	+ 4·0	6	1·30	33	+ 12	1·3	- 3·7	11	•	•	•	•	•	•	St. Heliers.
a Guernsey (Villa Carey)	180	65	3rd	55	1, 2	62·9	57·7	60·2	+ 3·8	7	1·02	26	+ 4	0·9	- 3·7	8	0	49	60·5	+1·7	60·2	+0·2	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, October 7th, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Above Ground.	Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Gales, force 8 or more. Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	High Winds, forces 6 and 7. Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.		Highest Hourly Wind. Date and Hour, G.M.T.	Highest Gust with Date and Time, G.M.T.		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.		m/s.	d.	h. m.
1. SCOTLAND, E.																	
Dyce	305	75	115**	—	—	—	—	4	56	108	0	—	6	3rd 12h.	13	3rd	12 . 50
Aberdeen*	153	105 / 52 †	37 / 52 †	—	—	—	—	13	94	52	9	NW. by W.	8	2nd 2h.	14	3rd	13 . 30
Edinburgh	485	39	31	—	—	—	—	60	82	26	0	SW. by S.	10	7th 7h.	18	6th	20 . 40
6. SCOTLAND, W.																	
Eskdalemuir	850	50	22	—	—	6, 7	22	40	49	57	0	SSW.	16	6th 14h.	23	6th	14 . 28
Paisley	188	81	52	—	—	—	—	9	91	68	0	WSW.	7	7th 5h.	20	6th	5 . 10
2. ENGLAND, N.E.																	
Alnwick Castle	340	70	17	—	—	—	—	8	84	76	0	WSW.	7	7th 10h.	15	7th	9 . 40
South Shields	72	61	12	—	—	6th	1	52	86	29	0	W. by N.	12	6th 19h.	23	6th	18 . 32
Spurn Head	66	40	‡	—	—	5 to 7	23	71	64	9	1	WNW.	13	7th 18h.	22	7th	14 . 20
3. ENGLAND, E.																	
Gorleston	52	42	‡	—	—	6, 7	10	79	68	11	0	—	12	6th 14h.	18	7th	12 . 28
Shoeburyness	103	90	‡	—	—	6th	17	78	75	0	0	SW. by S.	15	6th 15h.	21	6th	13 . 23
4. MIDLAND COUNTIES.																	
Benson	270	84	‡	—	—	6, 7	10	78	67	13	0	SW.	12	7th 11h.	20	7th	15 . 50
5. ENGLAND, S.E.																	
Dover	271	40	‡	—	—	4, 6, 7	32	69	38	29	0	—	16	6th 10h.	22	6th	20 . 25
Warlingham	642	33	‡	—	—	6th	4	52	85	27	0	—	12	6th 15h.	21	6th	15 . 22
Brighton	261	53	6	—	—	6, 7	4	81	72	11	0	—	12	6th 17h.	21	6th	19 . 29
Kew Observatory ..	82	65	6 / 22 †	—	—	—	—	55	78	35	0	SW.	10	6th 15h.	19	6th	14 . 12
South Kensington ..	123	92	30	—	—	—	—	16	107	45	0	SW.	7	6th 15h.	16	7th	11 . 44
7. ENGLAND, N.W.																	
Carnforth	246	56	23	—	—	—	—	36	71	61	0	SW. by W.	11	7th 14h.	20	7th	11 . 58
Southport	80	62	48	5, 7	9	4 to 7	45	61	53	0	0	SW. by W.	23	7th 12h.	30	7th	11 . 11
Holyhead*	60	40	‡	—	—	4 to 7	55	80	33	0	0	SW. by W.	16	7th 11h.	24	7th	11 . 28
8. ENGLAND, S.W.																	
Pendennis Castle§ ..	256	65	24	5, 6	16	2 to 7	59	79	14	0	0	SW.	22	6th 13h.	27	6th	14 . 15
Plymouth	185	88	2	6th	2	4 to 6	22	76	68	0	0	—	18	6th 10h.	22	6th	10 . 23
Lyme Regis	556	61	‡	—	—	6, 7	15	80	56	17	0	—	15	6th 16h.	22	6th	15 . 23
10. IRELAND, S.																	
Quilty	100	40	‡	7th	2	1, 4 to 7	41	116	8	1	0	—	19	7th 5h.	26	7th	5 . 2
Weaver Pt.	160	30	‡	—	—	5 to 7	20	100	47	1	0	—	15	5th 22h.	24	5th	21 . 52
11. ENGLISH CHANNEL.																	
Scilly*	150	32 / 19	‡	—	—	6, 7	27	83	56	2	0	W. by N.	14	7th 15h.	22	7th	12 . 17

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.
† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

FORTIETH WEEK- October 1st to October 7th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Pressure Mean for the Week at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	°/₀	mb.
0. SCOTLAND, NORTH	62	30	84·9	79·2	82·0	+ 0·1	43	− 4	0	− 3	5	0	1·09	28	− 7	1·8	−0·9	16	1006
Eastern.																			
1. SCOTLAND, EAST	70	24	86·5	79·1	82·7	+ 0·5	53	+ 2	0	− 4	4	− 1	1·43	36	+ 17	1·6	−1·6	14	1006
2. ENGLAND, N.E. ...	67	32	88·4	82·3	85·3	+ 2·1	85	+ 24	0	− 2	6	+ 2	0·90	23	+ 10	1·7	−2·0	15	1009
3. ENGLAND, EAST	68	41	89·7	83·8	86·7	+ 2·9	102	+ 33	0	− 2	5	+ 1	0·56	14	− 1	2·3	−1·6	20	1013
4. MIDLAND COUNTIES ...	70	39	89·4	83·3	85·3	+ 3·1	97	+ 35	0	− 3	6	+ 2	1·22	31	+ 15	2·1	−1·4	18	1012
5. ENGLAND, S.E. ...	68	44	90·2	85·4	87·7	+ 3·1	116	+ 38	0	− 1	6	+ 2	1·29	33	+ 15	2·0	−1·9	17	1015
Western.																			
6. SCOTLAND, WEST	61	31	86·9	81·6	84·2	+ 1·3	71	+ 14	0	− 2	6	+ 1	2·49	63	+ 33	1·2	−2·0	11	1007
7. ENGLAND, N.W. ...	71	39	88·7	83·6	86·1	+ 2·5	95	+ 30	0	− 1	6	+ 2	2·09	53	+ 29	0·9	−2·3	8	1009
8. ENGLAND, S.W. ...	68	46	89·7	85·8	87·7	+ 3·4	115	+ 41	0	0	7	+ 2	2·35	60	+ 35	1·2	−2·6	10	1012
9. IRELAND, NORTH	67	46	88·6	83·9	86·2	+ 3·0	96	+ 37	0	− 1	7	+ 2	2·50	64	+ 41	1·5	−2·0	13	1005
10. IRELAND, SOUTH	69	45	90·4	85·6	87·9	+ 4·0	118	+ 50	0	− 1	7	+ 3	2·57	65	+ 45	2·1	−1·6	19	1007
11. ENGLISH CHANNEL	66	54	90·1	87·2	88·6	+ 2·4	127	+ 31	0	0	7	+ 3	1·15	29	+ 7	1·2	−3·3	11	1005

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 5 Weeks, September 3rd to October 7th, 1916.

0. SCOTLAND, NORTH	71	30	86·6	80·7	83·5	0·0	316	− 5	0	− 6	22	− 2	3·27	84	− 58	2·5	−0·7	20	1014
Eastern.																			
1. SCOTLAND, EAST	74	24	87·9	80·1	83·8	− 0·1	331	− 14	0	− 8	17	− 3	3·00	75	+ 1	3·3	−0·5	26	1014
2. ENGLAND, N.E. ...	74	32	89·0	81·8	85·3	+ 0·3	423	+ 16	0	− 2	15	− 2	2·39	62	+ 3	3·6	−0·7	29	1015
3. ENGLAND, EAST	71	35	89·7	82·5	86·0	+ 0·2	464	+ 3	0	− 3	16	0	1·77	45	− 16	3·4	−1·4	28	1016
4. MIDLAND COUNTIES ...	73	33	89·8	81·9	85·7	+ 0·6	450	+ 28	0	− 5	15	− 1	2·37	60	− 4	3·1	−1·1	25	1016
5. ENGLAND, S.E. ...	73	32	90·5	83·4	86·8	+ 0·3	520	+ 17	0	− 1	16	0	2·74	71	0	3·8	−1·1	31	1016
Western.																			
6. SCOTLAND, WEST	72	31	88·2	81·9	84·9	+ 0·5	403	+ 28	0	− 3	20	0	4·36	111	− 16	3·1	−0·9	25	1015
7. ENGLAND, N.W. ...	75	34	89·0	83·1	85·9	+ 0·6	465	+ 39	0	− 1	18	0	4·25	109	+ 15	2·7	−1·4	22	1016
8. ENGLAND, S.W. ...	72	34	90·2	84·1	87·0	+ 1·0	533	+ 64	0	0	16	− 3	4·52	115	+ 17	3·3	−1·3	27	1017
9. IRELAND, NORTH	73	35	89·0	83·5	86·2	+ 1·4	478	+ 84	0	− 1	21	− 1	4·27	108	+ 10	2·5	−1·1	20	1015
10. IRELAND, SOUTH	77	39	90·2	84·4	87·1	+ 1·6	541	+105	0	− 1	23	+ 4	4·47	114	+ 27	2·9	−1·4	23	1016
11. ENGLISH CHANNEL	73	43	90·7	85·8	88·1	+ 0·5	603	+ 31	0	0	17	− 2	3·84	98	+ 15	4·3	−1·4	35	1016

THE YEAR.—Aggregates, &c., for the Period of 40 Weeks, January 2nd to October 7th, 1916.

0. SCOTLAND, NORTH	81	20	84·2	78·4	81·2	0·0	1810	− 65	454	−109	188	+ 4	37·24	944	+ 4	2·9	−0·7	22	1010
Eastern.																			
1. SCOTLAND, EAST	82	7	85·1	77·8	81·3	− 0·1	1946	−169	585	− 43	167	+14	30·59	777	+206	3·5	−0·7	26	1011
2. ENGLAND, N.E. ...	84	20	86·2	79·2	82·6	+ 0·4	2431	+ 74	379	− 98	146	+ 9	20·61	526	+ 72	3·9	−0·7	29	1012
3. ENGLAND, EAST	83	24	87·0	79·6	83·2	+ 0·3	2700	− 21	353	−171	148	+16	20·54	520	+ 83	4·1	−0·9	31	1013
4. MIDLAND COUNTIES ...	84	21	87·2	79·1	83·0	+ 0·3	2663	+ 5	405	−133	142	+11	21·45	547	+ 57	3·8	−0·6	29	1013
5. ENGLAND, S.E. ...	86	15	87·6	80·2	83·7	+ 0·1	2914	− 8	291	− 88	142	+16	22·04	561	+ 82	4·6	−0·5	35	1014
Western.																			
6. SCOTLAND, WEST	83	17	85·8	79·1	82·4	+ 0·2	2314	+ 36	365	− 63	168	+ 8	32·61	832	− 27	4·1	−0·3	31	1012
7. ENGLAND, N.W. ...	83	8	86·2	80·0	83·0	+ 0·3	2544	+ 51	310	− 77	151	+ 5	26·37	671	+ 38	4·0	−0·4	30	1013
8. ENGLAND, S.W. ...	84	17	87·2	80·4	83·5	+ 0·1	2790	+ 29	279	− 22	150	+ 6	29·95	767	+ 91	4·6	−0·3	35	1014
9. IRELAND, NORTH	81	18	85·9	79·6	82·6	0·0	2394	+ 13	334	− 12	181	+ 7	28·82	737	+ 30	3·7	−0·3	28	1012
10. IRELAND, SOUTH	85	20	87·1	80·4	83·6	+ 0·2	2827	+105	244	− 16	188	+34	29·45	744	+ 17	4·3	−0·2	33	1014
11. ENGLISH CHANNEL	80	30	87·5	82·1	84·7	+ 0·1	3191	+ 33	85	− 24	148	− 4	23·72	600	+ 45	5·4	−0·6	42	1015
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr	°/₀	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics, South Kensington, S.W., October 12th, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 161

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 41. SUNDAY, OCTOBER 8TH, TO SATURDAY, OCTOBER 14TH, 1916. *Price 6d., Post free 7d. Annual Subscription Post Paid £1 10s. 0d.*

I.—THE FORTY-FIRST WEEK OF 1916.

This period was highly interesting on account of some remarkable features in temperature and rainfall. The whole week was of exceptional mildness, the temperature everywhere being well in excess of the normal, at very numerous stations by as much as 3 a. to 6 a., the results for the districts ranging from an excess of more than 2 a. in Scotland North to more than 5 a. in the Midlands and England South-East. Afternoon readings above 289 a. were widely prevalent daily, and on various days there were maxima round 293 a. But the nights were relatively much milder than the days, minima as high as 286 a. to 289½ a. being registered in many localities, the mean minimum for the week at a large number of southern stations ranging between those values, which equal or exceed the highest average night temperatures at the height of summer. As regards rainfall the country was divided into well defined areas of wet and of dry weather, the former embracing Scotland, England North-West, and Ireland North. Amongst the largest falls were 111 mm. at Glencarron, and 114 mm. at Fort William on the 11th; 43 mm. at Southport and Stonyhurst on the 13th; and 56 mm. at Glencarron, 59 mm. at Fort Augustus, and 94 mm. at Fort William on the 14th. The aggregates for the seven days were uncommonly large, up to 4½ times the normal at Glasgow, 5½ at Nairn, 6½ at Fort William and nearly 8 times at Fort Augustus. For the whole of Scotland North the average was 450 per cent. of the normal, whereas the values ranged down to 22 per cent. for England South-East, and 9 per cent. for the English Channel. Excepting in Scotland East there was a general lack of sunshine, England South-West and Ireland South returning only 30 per cent. of the normal. Thunderstorms visited Fort William and Rothesay on the 10th. The temperature of the sea water off Wick was a little under the normal, elsewhere it was in excess, by 1½ a. off Plymouth and the west of Ireland.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.
		m/s		m/s		m/s		m/s		m/s		m/s		m/s		m/s
South	6	5·2	7	6·3	7	2·4	7	3·8	6	5·2	5	2·9	6	5·4	6	5·3
North	1	2·2	0	—	¼	2·2	0	—	1	3·1	¼	7·4	0	—	1	2·4
West	6	8·1	7	7·1	7	4·9	7	3·8	7	7·4	7	7·0	7	7·3	7	4·7
East	1	5·4	¼	0·8	0	—	0	—	0	—	0	—	¼	2·3	¼	1·1
Calm	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c is printed on a separate sheet. (*See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ... Warmth ...	Unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual	Very unusual
Rainfall ...	Very heavy	Very heavy	Light	Light	Light	Light	Very heavy	Heavy	Light	Heavy	Moderate	Very light
Sunshine ...	Scanty	Moderate	Scanty	Scanty	Scanty	Very scanty	Scanty	Scanty	Very scanty	Very scanty	Very scanty	Very scanty

II.—THE AUTUMN SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

AUTUMN. 6 weeks from Sept. 3rd, 1916. Warmth ...	3, 1, 2	3, 2, 1	4, 1, 1	3, 1, 2	4, 1, 1	3, 2, 1	4, 1, 1	4, 1, 1	4, 2, 0	4, 2 0	4, 2, 0	3, 2, 1
Rainfall ...	1, 3, 2	2, 3, 1	2, 1, 3	1, 2, 3	1, 2, 3	1, 2, 3	2, 2, 2	2, 2, 2	2, 1, 3	2, 3, 1	1, 3, 2	1, 3, 2
Sunshine ...	1, 1, 4	1, 3, 2	0, 3, 3	0, 1, 5	0, 1, 5	0, 2, 4	0, 2, 4	0, 1, 5	0, 1, 5	0, 2, 4	0, 1, 5	0, 1, 5

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.) and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.

Increment of 1 a. = increment of ⅘° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(9386—19.) Wt. 79a—736. 450. 10/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.	Bright Sunshine. Hours per Day. Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
0. SCOTLAND, N.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
p Baltasound	*37*	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	*Baltasound.*
a Islands .. *a* Lerwick ..	54	54	11, 12, 14	44	8, 11, 14	53·0	44·6	48·7	+ 2·1	7	4·02	102	—	1·7	- 1·1	16	*	*	*	*	*	*	Deerness.
a Stornoway ..	51	60	14th	43	14th	57·1	46·0	51·4	+ 4·3	7	3·50	89	+ 57	2·3	- 0·6	22	*	*	*	*	*	*	Stornoway.
a Castlebay, Barra Isd. ..	*37*	*59*	*10, 14*	*49*	*11th*	*57·1*	*50·0*	*53·5*	*+ 4·4*	*7*	*2·13*	*54*	—	*2·0*	—	*19*	*	*	*	*	*	*	*Castlebay.*
a Wick	81	62	12th	41	14th	57·0	43·1	49·8	+ 2·2	5	1·78	45	+ 27	*	*	*	*	*	*	*	*	*	
b, Main- *p* Strathpeffer ..	200	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	Strathpeffer.
land. *p* Glencarron ..	500	58	14th	42	11th	55·6	44·9	50·1	+ 4·2	7	10·47	266	+213	*	*	*	*	*	*	*	*	*	
p Fort Augustus ..	68	60	12, 14	43	11th	57·1	47·0	51·9	+ 4·3	7	7·40	188	+164	0·7	- 1·4	7	*	*	*	*	*	*	Fort Augustus.
p Fort William ..	171	58	12, 14	46	11, 13, 14	56·3	47·4	51·7	+ 2·9	7	11·75	298	+253	*	*	*	*	*	*	*	*	*	
1. SCOTLAND, E.														3·7	—	35	1	29	51·5	+0·7	52·5	+0·3	Crathes.
p Gordon Castle ..	101	67	12th	44	11, 13, 14	60·6	45·3	52·7	+ 4·3	6	1·24	31	+ 12	*4·3*	—	*40*	*	*	*	*	*	*	*Gordon Castle.*
a Nairn	82	63	12th	43	11, 14	58·9	44·6	51·5	+ 4·0	7	2·80	71	+ 58	3·5	—	33	*	*	*	*	*	*	Nairn.
a Aberdeen ..	46	69	12th	44	11, 13, 14	62·6	45·6	53·9	+ 5·6	5	0·61	15	- 2	3·9	+ 0·5	36	*	*	*	*	51·3	+0·2	Aberdeen.
a Balmoral	930	62	12th	39	11th	56·4	41·9	48·9	+ 4·4	6	1·56	40	+ 19	*	*	*	0	37	*	*	*	*	Balmoral.
p Crieff	432	64	12th	42	11th	59·1	44·3	51·5	+ 3·3	7	3·22	82	+ 61	3·0	—	28	*	*	*	*	*	*	Balruddery.
a Leith	18	63	12, 14	47	11, 13, 14	60·1	48·6	54·2	+ 4·4	7	1·83	47	+ 35	*	*	*	*	*	*	*	*	*	
a West Linton ..	769	59	11, 14	43	10, 13	57·3	45·3	51·1	+ 5·6	7	3·26	83	—	*1·5*	—	*14*	0	37	*	*	*	*	*West Linton.*
p Marchmont ..	498	64	12th	40	9th	59·3	43·4	51·1	+ 3·7	6	1·10	28	+ 8	2·3	- 0·7	21	0	36	*	*	*	*	Marchmont.
a Edinburgh ..	*441*	*62*	*12, 14*	*45*	*11th*	*59·1*	*47·6*	*53·2*	—	*7*	*1·70*	*43*	—	3·1	—	29	0	43	*	*	*	*	Edinburgh.
6. *a*, SCOTLAND, W.														*	*	*	*	*	*	*	*	*	
a Poltalloch	132	60	14th	—	—	57·4	—	—	—	7	4·39	112	+ 83	*	*	*	*	*	*	*	*	*	
p Glasgow Observatory	189	61	14th	47	11th	58·1	49·3	53·6	+ 5·4	7	3·37	86	+ 66	1·7	- 0·8	16	0	37	*	*	*	*	Glasgow.
p Rothesay	170	62	14th	46	14th	58·7	48·3	53·4	+ 4·2	7	3·74	95	+ 70	*1·7*	—	*16*	0	41	52·3	*	53·0	+0·8	*Rothesay.*
a Kilmarnock ..	90	61	8, 14	48	13th	58·6	50·1	54·2	+ 5·6	7	2·98	76	—	*1·3*	—	*12*	*	*	52·6	*	52·9	*	*Kilmarnock.*
a Colmonell	170	61	8, 12, 14	49	10, 13, 14	60·4	50·0	55·1	+ 6·0	7	1·82	46	+ 21	*	*	*	0	44	*	*	*	*	
a Dumfries	160	61	8, 12	46	13th	59·4	49·1	54·1	+ 5·3	7	1·94	49	+ 29	*1·4*	—	*13*	0	38	53·9	*	55·0	*	*Dumfries.*
Eskdalemuir ..	*799*	*59*	*12th*	*41*	*10, 13*	*56·6*	*44·1*	*50·2*	—	*7*	*4·53*	*115*	—	*1·8*	—	*17*	*	*	*	*	*	*	*Eskdalemuir.*
p Cally, Gatehouse ..	120	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	
b, I. OF MAN. *p* Douglas	277	63	12th	47	13, 14	59·4	49·6	54·4	+ 4·5	7	1·44	37	+ 11	2·0	- 1·6	18	0	42	*	*	*	*	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle ..	210	65	14 h	44	13th	62·0	48·3	55·0	+ 7·4	4	0·60	15	- 5	2·8	—	26	0	40	50·6	+0·4	52·0	+0·6	Cockle Park.
a Tynemouth ..	71	66	12th	48	10, 11	61·6	50·0	55·6	+ 8·4	4	0·31	8	- 9	*	*	*	*	*	*	*	*	*	Tynemouth
p Durham ..	336	65	12th	41	14th	61·4	46·7	53·8	+ 5·2	4	0·32	8	- 9	3·2	+ 0·1	29	0	39	*	*	*	*	Durham.
a North .. *p* Rounton ..	249	65	14th	45	13th	62·0	49·0	55·3	+ 7·2	3	0·71	20	+ 4	*	*	*	0	35	53·7	*	*	*	Rounton.
a West Witton ..	*605*	*63*	*14th*	*46*	*13th*	*60·0*	*48·7*	*54·2*	—	*6*	*1·59*	*40*	—	1·8	—	17	*	*	53·0	*	52·0	*	*West Witton.*
p Scarborough† ..	100	66	8th	47	10th	65·3	51·0	57·0	+ 6·9	3	0·55	14	- 4	2·5	- 0·5	23	*	*	*	*	54·5	*	Scarborough.
p York	56	66	14th	48	10, 13	63·3	51·4	57·2	+ 7·4	5	0·70	18	+ 3	*	*	*	*	*	55·2	+1·5	55·2	+0·7	York.
a Spurn Head ..	26	66	14th	49	10, 14	62·6	51·0	56·6	+ 5·5	2	0·16	4	- 9	*1·9*	—	*17*	*	*	*	*	*	*	*Spurn Head.*
b, South .. *a* Lincoln ..	58	68	8, 12	47	10th	66·4	51·7	58·4	+ 8·8	4	0·18	5	- 9	*	*	*	*	*	55·5	+2·3	55·7	+1·1	Lincoln.
a Fulbeck	180	68	12th	47	10th	65·7	52·1	58·7	+ 9·3	4	0·20	6	- 8	3·4	—	31	0	38	56·5	+3·5	55·1	0·0	Rauceby.
														2·3	—	21	*	*	*	*	*	*	Skegness.
3. ENGLAND, E.																							
p Cromer	196	69	12th	48	10, 11	65·0	50·9	57·7	+ 6·9	2	0·05	1	—	3·1	—	28	*	*	*	*	*	*	Cromer.
p Little Massingham ..	280	67	12th	47	10th	63·0	51·0	56·8	+ 6·7	2	0·08	2	- 15	2·0	—	18	0	45	*	*	*	*	Lit. Massingham.
a, North .. *a* Yarmouth ..	13	69	12, 13	50	8, 10, 14	66·4	52·0	59·0	+ 7·8	4	0·28	7	- 10	2·3	—	20	*	*	56·6	+0·9	56·0	-1·0	Yarmouth.
a Norwich	93	68	12th	50	8, 10	65·0	53·3	59·0	+ 7·7	5	0·41	10	—	*2·8*	—	*26*	0	43	56·1	*	*	*	*Norwich.*
a Geldeston ..	37	69	12th	48	8, 10	66·1	51·3	58·5	+ 7·9	4	0·21	5	- 11	2·8	- 1·1	26	*	*	*	*	*	*	Geldeston.
p Cambridge	41	67	8-10, 12	50	10th	66·1	54 0	59·9	+ 9·6	2	0·21	5	- 8	2·7	- 1·1	25	0	43	57·3	+2·8	56·7	+0·2	Cambridge.
a Clacton-on-Sea ..	54	66	8, 9, 12	52	8th	64·4	55·6	59·9	+ 8·1	3	0·22	6	—	3·1	—	28	0	51	57·6	+1·3	57·6	+0·7	Clacton.
b, South .. *a* Rothamsted ..	424	64	8th	48	10th	62·7	53·9	58·2	+ 8·8	3	0·32	8	- 9	2·1	- 1·7	19	0	42	55·5	*	*	*	Rothamsted.
p Tottenham	51	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate ..	479	63	12, 14	46	10, 13	61·4	49 0	55·0	+ 6·7	6	1·12	29	+ 11	2·1	—	19	0	39	53·3	+1·7	53·3	+1·1	Harrogate.
p Buxton	*987*	*61*	*8, 11, 14*	*46*	*13th*	*60·0*	*50·7*	*55·2*	*+ 8·6*	*5*	*1·16*	*29*	*+ 2*	*2·3*	—	*21*	0	44	53·1	+0·9	53·5	+0·8	*Buxton.*
														2·7	—	25	0	43	54·5	+1·8	53·9	+0·4	Sheffield.
a Bawtry	65	69	12, 14	45	10th	65·6	52·9	59·1	+10·1	3	0·07	2	- 12	2·2	- 0·7	20	0	33	54·9	*	54·2	*	Worksop.
a Nottingham ..	82	68	12th	48	10th	65 1	51·7	58·2	+ 8·4	5	0 41	11	- 3	2·2	—	20	0	41	55·8	+2·9	55 4	+0·2	Nottingham.
b, East .. *p* Birmingham, Edgbn.	535	65	12th	49	10th	63·1	52·3	57·5	+ 8·3	4	0·19	5	- 10	1·9	—	17	0	43	54·1	+2·4	52·9	+0·3	Birmingham.
a Raunds	203	69	12th	48	10th	65·4	51·9	58·5	+ 8·7	3	0·20	5	—	*2·8*	—	*26*	0	37	57·1	*	56·2	*	*Raunds.*
p Oxford	208	65	12th	51	8th	63·9	55·6	59·6	+ 9·3	3	0 13	3	- 12	2·0	- 1·6	18	0	46	*	*	*	*	Oxford
a Cheadle	646	65	8th	41	10th	62·4	50·3	56·2	+ 8·0	5	0·30	8	- 10	*	*	*	0	39	*	*	*	*	Cheadle.
p Shrewsbury ..	191	67	8, 14	44	10th	65·4	48·3	57·1	+ 6·9	4	0·16	4	—	*	*	*	0	41	*	*	*	*	Shrewsbury.
c, West .. *a* Hereford§ ..	291	67	9, 12	50	10th	65·3	54·4	59·7	+ 9·5	3	0·10	3	- 11	*2·1*	—	*19*	0	39	56·6	*	56·9	*	*Malvern.*§
a Bath	66	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	Bath.
5. ENGLAND, S.E.														0·9	—	8	0	50	59·6	+3·2	58·4	+1·2	Worthing.
a Marlborough ..	424	65	12th	48	10th	62·9	53·9	58·3	+ 9·5	4	0·11	3	- 14	1·3	- 2·0	12	0	49	57 2	*	56·0	*	Marlborough.
a Margate	53	68	12th	52	8th	66 0	56·7	61·2	+ 8·5	2	0 15	4	- 10	2·6	- 1·2	24	0	48	58·9	+4·3	59·0	+2·9	Margate.
a Wisley, Surrey ..	150	66	9, 12	52	8th	64·6	56·3	60·3	+ 8·9	3	0·17	4	—	1·5	—	14	0	46	57·9	+3·1	56·4	0·0	Wisley.
p Salisbury (Wilton) ..	180	68	12th	53	9th	64·9	55·0	59·8	+ 9·4	2	0·08	2	- 17	*	*	*	0	50	58·9	*	*	*	Salisbury.
a Tunbridge Wells ..	354	65	8, 11, 12	51	8th	63·7	56·0	59·7	+ 9·3	4	0·20	5	- 14	0 9	- 3·0	8	0	44	58·2	+3·1	57·5	*	Tunbridge Wells.
a Dungeness	21	65	9th	55	8th	63·1	58 6	60·8	+ 7·5	2	0·08	2	- 15	*	*	*	*	*	*	*	*	*	Littlestone.
p Hastings	178	65	8, 11	53	8th	63·1	57·7	60·3	+ 7·4	4	0·15	4	- 17	0·9	- 3·3	8	0	48	59·3	*	58·2	*	Hastings.
p Southampton ..	64	65	9th	57	8,9,11,12	62·7	57·7	60·1	+ 7·7	5	0·12	3	- 16	1·3	- 2·7	12	0	48	*	*	*	*	Southampton.
a Ventnor	59	64	9, 11	53	8th	62·9	58·0	60·4	+ 6·1	3	0·11	3	- 12	1·1	- 3 2	10	*	*	*	*	*	*	Ventnor.
LONDON. *p* Kew Observatory ..	18	66	12, 13	53	8th	64·8	56·7	60·6	+ 9·7	4	0·19	5	- 8	1·6	- 1·8	15	0	46	57·6	+2·1	56·1	+0·2	Kew Obs.
a Westminster ..	*27*	*67*	*8, 9, 13*	*53*	*8th*	*66·3*	*57·5*	*61·8*	*+11 2*	*4*	*0·13*	*3*	*- 11*	*1 6*	*- 0·9*	*15*	0	46	*	*	*	*	*Westminster.*
a Greenwich ..	*155*	*68*	*9th*	*53*	*8th*	*66·6*	*56·4*	*61·4*	*+ 9·8*	*4*	*0·11*	*3*	*- 12*	*1·8*	*- 1·7*	*11*	0	41	*	*	*	*	*Greenwich.*
a Hampstead ..	*450*	*65*	*14th*	*50*	*8th*	*63·3*	*53·4*	*58·2*	—	*4*	*0 16*	*4*	—	*1·5*	—	*14*	0	38	*	*	*	*	*Hampstead.*
a Camden Square ..	*110*	*68*	*8th*	*52*	*8th*	*66·1*	*56·4*	*61·1*	—	*4*	*0·14*	*4*	—	*1·6*	—	*15*	0	49	*	*	*	*	*Camden Square.*
7. *a*, ENGLAND, N.W.														2·0	—	18	*	*	*	*	*	*	Hoylake.
p Aspatria (Mealsgate)	487	60	14th	46	13th	57·6	48 1	52·7	+ 3·9	7	2·36	60	+ 37	1·7	—	16	0	42	53·1	+0·6	53·6	*	Aspatria.
p Newton Rigg	559	62	14th	45	13th	59·6	48·9	54·1	+ 6·6	6	2·36	60	+ 38	2·0	- 1·0	18	0	34	53·7	*	53·4	+0·1	Newton Rigg.
p Stonyhurst	375	63	14th	45	13, 14	60·1	49·0	54·4	+ 6·0	7	3·44	87	+ 60	1·6	- 1·5	15	0	39	*	*	*	*	Stonyhurst.
p Blackpool	66	62	8, 11, 14	52	13, 14	61·1	53·3	57·1	+ 6·8	7	1·11	28	+ 6	1·1	- 2·2	10	0	42	56·2	*	55·5	*	Blackpool.
a Southport	37	64	14th	49	10th	61·9	53·1	57·4	+ 7·4	5	1·94	49	+ 28	1·8	- 1·3	17	0	40	55·8	+2·7	56·1	+0·7	Southport.
a Liverpool (Bidston) ..	188	64	10, 11, 14	50	13, 14	62·9	53 0	57·8	+ 6·9	3	0·39	10	- 9	*2·1*	—	*19*	*	*	*	*	*	*	*Liverpool.*
a Hawarden Bridge ..	22	68	11th	50	10th	65·3	53 9	59·4	+ 8·2	3	0 28	7	- 10	*1·6*	—	*15*	0	42	55·8	+2·5	57·0	+1·4	*Manchester (City)*
p Manchester (Whit. Pk.)	125	64	8, 11, 14	47	13th	62·9	52·1	57·3	+ 7·8	5	0·74	19	+ 1	*1·7*	*- 0·8*	*16*	*	*	*	*	*	*	*" (Whit. Park)*
b, NORTH WALES.																							
p Llandudno	71	67	14th	49	13th	62·6	54·9	58·6	+ 7·0	4	0·70	18	- 2	2·2	- 1·0	20	*	*	*	*	*	*	Llandudno.
a Holyhead	15	62	8, 11	51	13th	60·7	54·0	57·3	+ 5·5	4	0 95	24	+ 3	*1·1*	—	*10*	*	*	*	*	*	*	*Holyhead.*
p Bettws-y-Coed ..	148	65	12th	48	13th	62·3	52 0	57·0	+ 6·1	5	2 54	65	—	1·3	—	12	*	*	55·4	+3·8	54·0	+1·1	Bettws-y-Coed.
														1·4	—	13	*	*	*	*	*	*	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.							Rainfall.			Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. * Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														1·3	—	12	*	*					
a Llangammarch Wells	550	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	Aberystwyth.
a Pembroke	149	60	8-14	55	8, 10, 13	60·0	56·1	58·0	+ 5·4	5	0·35	9	− 12	1·2	− 2·5	11	*	*	*	*	*	*	Llangammarch.
p Cardiff	202	63	9, 12	54	8-10	61·9	56·3	59·0	+ 8·8	6	0·51	13	− 13	*1·3*	—	*12*	0	50	58·2	+3·8	57·0	+1·1	Pembroke.
																							Cardiff.
b, ENGLAND, S.W.																							
a Clifton	229	65	13th	54	8th	63·6	57·1	60·3	+ 9·7	6	0·59	15	− 5	*1·2*	—	*11*	0	50	*	*	*	*	*Clifton.*
a Shaftesbury	723	62	8, 12, 13	51	8th	61·1	54·3	57·6	+ 7·5	3	0·38	10	− 9	*	*	*	*	*	57·4	*	57·5	*	Shaftesbury.
a Arlington	613	62	8, 9	54	8, 10	60·4	55·6	57·9	+ 8·1	6	1·37	35	− 1	*	*	*	*	*	*	*	*	*	Arlington.
a Newquay	*190*	*64*	*12th*	*53*	*8th*	*62·1*	*56·9*	*59·4*	*+ 6·1*	*3*	*0·44*	*11*	*− 9*	0·7	− 3·2	6	*	*	60·0	*	58·2	*	Newquay.
a Cullompton	202	66	9, 12, 13	54	12th	64·7	56·6	60·5	+ 9·9	4	0·34	9	− 11	0·6	− 2·8	6	0	48	58·2	*	*	*	Cullompton.
a Portland Bill	19	62	8, 12, 14	58	8, 9	61·4	58·7	60·0	+ 6·4	3	0·13	3	—	*0·8*	—	7	*	*	*	*	*	*	*Weymouth.*
p Plymouth	116	65	11th	57	8th	61·7	58·1	59·9	+ 7·3	3	0·22	6	− 14	0·4	− 3·3	4	*	*	59·0	+2·9	58·0	*	Plymouth.
a Falmouth	167	64	12th	54	8th	62·3	57·4	59·8	+ 6·9	3	0·28	7	− 19	1·6	− 2·3	15	0	53	60·8	*	60·3	*	Falmouth.
9. IRELAND, N.																							
a, West .. *a* Malin Head	208	61	11th	47	11th	58·9	49·4	54·0	+ 3·8	7	1·69	43	+ 25	*1·6*	—	*15*	*	*	*	*	*	*	*Malin Head.*
a Blacksod Point ..	327	61	13th	49	14th	58·9	51·3	55·0	+ 3·8	7	1·39	35	+ 7	*	*	*	*	*	*	*	*	*	*
p Markree Castle ..	122	65	14th	41	13th	61·4	47·1	54·0	+ 5·4	7	1·86	47	+ 24	1·4	− 1·6	13	0	37	56·1	*	56·0	*	Markree Castle.
a Birr Castle	175	65	14th	45	10th	61·9	51·6	56·6	+ 8·0	6	1·34	34	+ 18	*1·0*	− *2·4*	*9*	*	*	*	*	*	*	*Birr Castle.*
b, East .. *p* Armagh	196	64	14th	44	13th	60·7	47·7	54·0	+ 5·2	7	0·94	24	+ 9	1·4	− 1·7	13	0	42	55·5	+2·1	55·7	+1·1	Armagh.
a Donaghadee	101	66	14th	44	13, 14	62·1	47·4	54·5	+ 4·3	7	0·83	21	+ 5	*	*	*	*	*	*	*	*	*	*
														*	*	*	0	41	56·8	+2·7	56·2	+1·2	Trinity Coll.
														1·2	− 2·5	11	0	35	*	*	*	*	Phœnix Park.
10. IRELAND, S.														*	*	*	0	44	*	*	*	*	Dublin City.
a, East .. *p* Dublin, City	47	67	14th	50	10th	63·9	52·1	57·8	+ 6·9	4	1·09	28	+ 14	*	*	*	*	*	*	*	*	*	*
a Kilkenny	212	67	12th	41	10th	64·1	50·6	57·2	+ 7·4	4	0·38	10	− 7	*	*	*	*	*	*	*	*	*	*
a Waterford	20	64	8, 11	51	10th	62·4	54·3	58·2	+ 7·7	3	0·18	4	− 17	*	*	*	*	*	*	*	*	*	*
a Seskin, Carrick-on-Suir	*541*	*65*	*12th*	*48*	*14th*	*62·9*	*51·0*	*56·8*	—	*4*	*0·24*	*6*	—	*1·5*	—	*14*	0	40	*	*	*	*	*Seskin.*
a Birr Castle	175	65	14th	45	10th	61·9	51·6	56·6	+ 8·0	6	1·34	34	+ 18	1·0	− 2·4	9	*	*	*	*	*	*	Birr Castle.
a Foynes	50	65	14th	49	10th	62·9	53·4	58·0	+ 7·2	7	1·26	32	+ 11	*	*	*	*	*	*	*	*	*	*
a Cahir	199	65	8, 12	47	10th	63·4	50·9	57·0	+ 6·3	6	0·52	13	—	*	*	*	*	*	*	*	*	*	*
b, West .. *a* Killarney	174	67	8th	51	8th	64·4	54·9	59·5	+ 8·7	6	0·89	23	− 7	*	*	*	*	*	*	*	*	*	*
a Valencia	30	63	8, 14	51	10th	62·1	55·1	58·5	+ 5·8	6	0·72	18	− 11	1·2	− 2·3	11	*	*	*	*	*	*	Valencia.
a Roche's Point	32	64	9, 11	54	8-10, 14	61·7	54·7	58·1	+ 6·0	6	0·19	5	− 17	1·1	—	10	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	62	11, 12	54	8th	61·1	56·9	58·9	+ 4·2	5	0·17	4	− 15	1·6	− 2·6	15	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	65	10, 11	54	8th	63·9	58·0	60·9	+ 5·4	1	0·04	1	− 23	1·7	− 2·8	16	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	65	11th	54	8th	63·1	57·1	60·0	+ 5·0	2	0·05	1	− 23	2·7	− 1·5	25	0	52	59·7	+1·7	60·1	+0·7	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, October 14th, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Height. Above Ground.	Height. Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Gales, force 8 or more. Duration.	High Winds, forces 8 and 7. Dates of Occurrence.	High Winds, forces 8 and 7. Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.	Highest Hourly Wind. Date and Hour, G.M.T.	Highest Gust with Date and Time, G.M.T.
1. SCOTLAND, E.	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.	m/s. d. h. m.
Dyce	305	75	‡15**	—	—	14th	1	35	74	37	21	— 11	14th 21h.	24 14th 21 . 35
Aberdeen*	153	105	37 ‡ † 52 ‡ †	—	—	10, 12, 14	8	78	72	10	0	WSW. 15	14th 23h.	27 14th 23 . 22
Edinburgh	485	39	31	12, 14	9	8 to 12, 14	43	98	16	2	0	S. by W. 21	14th 14h.	36 14th 14 . 29
6. SCOTLAND, W.														
Eskdalemuir	850	50	22	11, 14	7	8 to 12, 14	71	49	33	8	0	SSW. 23	14th 16h.	34 14th 16 . 7
Paisley	188	81	52	—	—	14th	10	91	66	1	0	SW. by S. 15	14th 14h.	31 14th 19 . 31
2. ENGLAND, N.E.														
Alnwick Castle	340	70	17	—	—	14th	2	53	90	23	0	SW. by W. 11	14th 20h.	24 14th 21 . 2
South Shields	72	61	12	14th	2	9 to 12, 14	31	67	61	7	0	W. by N. 18	14th 23h.	28 14th 21 . 40
Spurn Head	66	40	‡	—	—	10, 12, 14	23	100	45	0	0	W. 15	14th 18h.	26 14th 23 . 25
3. ENGLAND, E.														
Gorleston	52	42	‡	—	—	14th	10	86	68	4	0	— 13	14th 23h.	18 14th 23 . 17
Shoeburyness	103	90	‡	—	—	10, 14	15	111	42	0	0	SW. 15	14th 22h.	22 14th 22 . 29
4. MIDLAND COUNTIES.														
Benson	270	84	‡	—	—	12, 14	8	115	45	0	0	SSW. 12	14th 21h.	19 14th 14 . 58
5. ENGLAND, S.E.														
Dover	271	40	‡‡	—	—	10 to 12, 14	36	87	20	0	25	— 16	14th 17h.	24 14th 24 . 3
Warlingham	642	33	‡‡	—	—	—	—	56	112	0	0	— 10	14th 22h.	21 14th 22 . 38
Brighton	261	53	6	—	—	14th	4	132	32	0	0	— 11	14th 23h.	21 14th 23 . 45
Kew Observatory ..	82	65	6 ‡ † 22 ‡ †	—	—	—	—	73	90	5	0	SW. 11	14th 21h.	19 14th 20 . 48
South Kensington ..	123	92	30	—	—	—	—	12	148	8	0	SW. by S. 7	14th 21h.	15 14th 21 . 44
7. ENGLAND, N.W.														
Carnforth	246	56	23	—	—	14th	2	80	65	21	0	WSW. 11	14th 22h.	25 14th 18 . 30
Southport	80	62	48	14th	7	8 to 12, 14	89	55	17	0	0	WSW. 21	14th 21h.	32 14th 14 . 40
Holyhead*	60	40	‡	14th	7	8 to 12, 14	66	81	14	0	0	WNW. 18	14th 24h.	27 14th 20 . 16
8. ENGLAND, S.W.														
Pendennis Castle§ ..	256	65	24	14th	9	9 to 14	57	100	2	0	0	SW. 21	14th 16h.	26 14th 16 . 22
Plymouth	185	88	2	—	—	10, 14	13	109	46	0	0	— 14	14th 19h.	20 14th { 20 . 35 20 . 38
Lyme Regis	556	61	‡	—	—	14th	9	102	57	0	0	— 15	14th 16h.	21 14th 20 . 39
10. IRELAND, S.														
Quilty	100	40	‡‡	14th	8	8, 10 to 14	88	48	18	3	3	— 18	14th 18h.	30 14th 13 . 7
Weaver Pt.	160	30	‡‡	—	—	—	—	—	—	—	—	— —	— —	— — —
11. ENGLISH CHANNEL.														
Scilly*	150	32 ‡ 19 ‡	‡	—	—	8, 14	12	121	35	0	0	NW. by W. 14	14th 21h.	23 14th 18 . 41

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.
† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

FORTY-FIRST WEEK—October 8th to October 14th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
			Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ..	62	41	86·4	80·5	83·3	+ 2·1	60	+ 20	0	− 6	7	+ 2	6·49	165	+133	1·6	−0·9	15	998
Eastern.																			
1. SCOTLAND, EAST ...	69	39	88·2	80·2	84·1	+ 2·8	69	+ 26	0	− 7	6	+ 2	1·95	50	+ 31	3·3	+0·3	31	1002
2. ENGLAND, N.E.	68	41	90·2	83·1	86·6	+ 4·3	101	+ 51	0	− 3	4	0	0·43	11	− 6	2·7	−0·7	24	1010
3. ENGLAND, EAST ...	69	47	91·2	84·6	87·8	+ 4·9	116	+ 57	0	− 4	3	− 1	0·22	6	− 10	2·7	−0·9	24	1017
4. MIDLAND COUNTIES ...	69	41	90·9	84·1	87·4	+ 5·2	111	+ 58	0	− 5	4	0	0·30	8	− 9	2·2	−1·1	20	1016
5. ENGLAND, S.E.	68	48	90·7	86·7	88·7	+ 5·1	127	+ 60	0	− 3	3	− 1	0·14	4	− 14	1·3	−2·3	12	1020
Western.																			
6. SCOTLAND, WEST ...	63	46	88·1	82·7	85·3	+ 3·2	85	+ 36	0	− 4	7	+ 3	2·55	65	+ 37	1·9	−1·1	17	1007
7. ENGLAND, N.W.	68	45	89·4	84·1	86·7	+ 3·9	102	+ 47	0	− 1	5	0	1·53	39	+ 15	1·7	−1·2	16	1013
8. ENGLAND, S.W.	66	51	89·6	86·7	88·1	+ 4·6	120	+ 56	0	− 2	4	0	0·46	12	− 14	1·0	−2·5	9	1019
9. IRELAND, NORTH ...	66	41	88·9	82·5	85·6	+ 3·3	89	+ 39	0	− 2	7	+ 2	1·34	34	+ 12	1·4	−1·5	13	1007
10. IRELAND, SOUTH ...	67	41	90·2	84·7	87·4	+ 4·3	111	+ 52	0	− 2	5	+ 1	0·73	19	− 3	1·1	−2·4	10	1015
11. ENGLISH CHANNEL ...	65	54	90·1	87·1	88·5	+ 3·1	125	+ 39	0	0	3	− 2	0·09	2	− 20	2·0	−2·2	18	1023

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 6 Weeks, September 3rd to October 14th, 1916.

0. SCOTLAND, NORTH ..	71	30	86·6	80·7	83·5	+ 0·4	376	+ 15	0	− 12	29	0	9·76	249	+ 75	2·3	−0·8	19	1011
Eastern.																			
1. SCOTLAND, EAST ..	74	24	88·0	80·1	83·9	+ 0·5	400	+ 12	0	− 15	23	− 1	4·95	125	+ 32	3·3	−0·4	27	1012
2. ENGLAND, N.E.	74	32	89·2	82·0	85·5	+ 1·0	524	+ 67	0	− 5	19	− 2	2·82	73	− 3	3·4	−0·7	28	1015
3. ENGLAND, EAST ..	71	35	90·0	82·8	86·3	+ 1·0	580	+ 60	0	− 7	19	− 1	1·99	51	− 26	3·3	−1·3	27	1016
4. MIDLAND COUNTIES ..	73	33	90·0	82·3	86·0	+ 1·3	561	+ 86	0	− 10	19	− 1	2·67	68	− 13	3·0	−1·0	24	1016
5. ENGLAND, S.E.	73	32	90·6	84·0	87·1	+ 1·1	647	+ 77	0	− 4	19	− 1	2·88	75	− 14	3·4	−1·3	28	1017
Western.																			
6. SCOTLAND, WEST ...	72	31	88·2	82·1	85·0	+ 1·0	488	+ 64	0	− 7	27	+ 3	6·91	176	+ 21	2·9	−0·9	24	1014
7. ENGLAND, N.W.	75	34	89·1	83·3	86·1	+ 1·2	567	+ 86	0	− 2	23	0	5·78	148	+ 30	2·5	−1·4	21	1015
8. ENGLAND, S.W.	72	34	90·1	84·6	87·2	+ 1·6	653	+120	0	− 2	20	− 3	4·98	127	+ 3	2·9	−1·5	24	1017
9. IRELAND, NORTH ..	73	35	89·0	83·4	86·1	+ 1·7	567	+123	0	− 3	28	+ 1	5·61	142	+ 22	2·3	−1·2	19	1014
10. IRELAND, SOUTH ...	77	39	90·2	84·4	87·2	+ 2·1	652	+157	0	− 3	28	+ 5	5·20	133	+ 24	2·6	−1·6	21	1016
11. ENGLISH CHANNEL ...	73	43	90·6	86·0	88·2	+ 0·9	728	+ 70	0	0	20	− 4	3·93	100	− 5	3·9	−1·6	32	1017

THE YEAR.—Aggregates, &c., for the Period of 41 Weeks, January 2nd to October 14th, 1916.

0. SCOTLAND, NORTH ..	81	20	84·3	78·4	81·2	0·0	1870	− 45	454	−115	195	+ 6	43·73	1109	+137	2·9	−0·6	22	1010
Eastern.																			
1. SCOTLAND, EAST ..	82	7	85·1	77·9	81·3	− 0·1	2015	−143	585	− 50	173	+16	32·54	827	+237	3·5	−0·7	27	1011
2. ENGLAND, N.E.	84	20	86·3	79·3	82·7	+ 0·5	2532	+125	379	−101	150	+ 9	21·04	537	+ 66	3·8	−0·8	29	1012
3. ENGLAND, EAST ..	83	24	87·1	79·8	83·3	+ 0·4	2816	+ 36	353	−175	151	+15	20·76	526	+ 73	4·1	−0·8	31	1013
4. MIDLAND COUNTIES ...	84	21	87·3	79·2	83·1	+ 0·4	2774	+ 63	405	−138	146	+11	21·75	555	+ 48	3·8	−0·6	29	1013
5. ENGLAND, S.E.	86	15	87·7	80·3	83·8	+ 0·2	3041	+ 52	291	− 91	145	+15	22 18	565	+ 68	4·5	−0·5	35	1014
Western.																			
6. SCOTLAND, WEST ...	83	17	85·9	79·2	82·4	+ 0·2	2399	+ 72	365	− 67	175	+11	35·16	897	+ 10	4·1	−0·2	31	1012
7. ENGLAND, N.W.	83	8	86·3	80·1	83·1	+ 0·4	2646	+ 98	310	− 78	156	+ 5	27·90	710	+ 53	3·9	−0·5	30	1013
8. ENGLAND, S.W.	84	17	87·2	80·5	83·6	+ 0·2	2910	+ 85	279	− 24	154	+ 6	30·41	779	+ 77	4·5	−0·4	35	1014
9. IRELAND, NORTH ...	81	18	86·0	79·6	82·7	+ 0·1	2483	+ 52	334	− 14	188	+ 9	30·16	771	+ 42	3·6	−0·4	27	1012
10. IRELAND, SOUTH ...	85	20	87·2	80·5	83·7	+ 0·3	2938	+157	244	− 18	193	+35	30·18	763	+ 14	4·2	−0·3	32	1014
11. ENGLISH CHANNEL ...	80	30	87·6	82·2	84·8	+ 0·2	3316	+ 72	85	− 24	151	− 6	23·81	602	+ 25	5·4	−0·6	41	1015
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics. South Kensington, S.W., October 19th, 1916.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 165

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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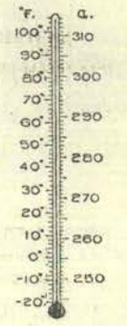
THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 42. SUNDAY, OCTOBER 15TH, TO SATURDAY, OCTOBER 21ST, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE FORTY-SECOND WEEK OF 1916.

The general character of the weather was unsettled. In Ireland rain fell almost daily, and in the greater part of Britain there were few days without more or less rain. Local thunderstorms occurred in Norfolk on the 17th. Temperature was below the normal except in Ireland and the English Channel, the deviation being more marked in Scotland East and England East and North-West than elsewhere. In most localities the warmest day was the 18th or 19th, but the highest reading for the week, 292 a., was recorded at Hawarden Bridge on the 15th. The lowest of the minimum readings were registered, as a rule, on the 17th or 21st. On the former date the value was as low as 265 a. at Balmoral and West Linton, and 268½ a. at Nairn, Strathpeffer and Durham. On the 21st 268½ a. was recorded at Shrewsbury. At Crathes, Balmoral and West Linton the minimum on the grass was about 264 a., at Raunds very little higher, and at Wisley and Hampstead 266 a. In Ireland the lowest reading was 273 a., in England South-West 274½ a., and in the English Channel 277 a. Rainfall varied considerably. In Scotland North, England North-East and all the western parts of England it was light, and in Ireland South heavy, while in the other districts it was moderate. Very heavy falls occurred in Ireland on the 21st. At Blacksod Point the amount was 47 mm., and at Valencia 51 mm. From Killarney the abnormal quantity of 136 mm., which has seldom been surpassed in Ireland, was reported. The duration of bright sunshine was abundant in Scotland East, the Midland Counties, England South-East and North-West and also in the Channel Islands, scanty in Scotland West and very scanty in Ireland. Elsewhere it was moderate. In the English Channel the mean daily amount was 4·9 hours and in England South-East and the Midland Counties about 4·2 hours, but in Ireland it was no more than 1 hour. A solar halo was observed at Oxford on the 18th and again on the 21st. The temperature of sea surface water was above the normal for the time of year at Cleggan and Plymouth, below it at Wick and the Shipwash Lightship.



WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.
		m/s		m/s		m/s		m/s		m/s		m/s		m/s		m/s
South	5	7·0	5	3·4	3	2·1	2	1·3	3	4·7	2	6·9	4	5·7	3	3·9
North	2	5·0	2	2·1	4	1·8	3	2·0	4	6·6	5	5·1	2	2·1	4	3·0
West	3	6·3	4	3·9	3	3·6	4	2·4	4	6·2	5	5·2	4	7·5	4	4·6
East	3	3·5	3	1·4	4	5·9	2	2·0	2	1·1	2	4·3	1	2·5	2	1·2
Calm	0	—	0	—	0	—	1	—	0	—	0	—	0	—	¼	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c. is printed on a separate sheet. *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Deficient	Deficient	Moderate	Deficient	Moderate	Deficient	Moderate	Deficient	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Light	Moderate	Light	Moderate	Moderate	Moderate	Moderate	Light	Light	Moderate	Heavy	Moderate
	Sunshine ...	Moderate	Abundant	Moderate	Moderate	Abundant	Abundant	Scanty	Abundant	Moderate	Very scanty	Very scanty	Abundant

II.—THE AUTUMN SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

AUTUMN. 7 weeks from Sept. 3rd, 1916.	Warmth ...	3, 1, 3	3, 2, 2	4, 2, 1	3, 1, 3	4, 2, 1	3, 2, 2	4, 2, 1	4, 1, 2	4, 3, 0	4, 3, 0	4, 3, 0	3, 3, 1
	Rainfall ...	1, 3, 3	2, 4, 1	2, 1, 4	1, 3, 3	1, 3, 3	1, 3, 3	2, 3, 2	2, 2, 3	2, 1, 4	2, 4, 1	2, 3, 2	1, 4, 2
	Sunshine ...	1, 2, 4	2, 3, 2	0, 4, 3	0, 2, 5	1, 1, 5	1, 2, 4	0, 2, 5	1, 1, 5	0, 2, 5	0, 2, 5	0, 1, 6	1, 1, 5

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.) and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1 a. = increment of $\frac{5}{9}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(9441—19.) Wt. 79a—736. 450. 10/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts	Lowest Reading.	Mean	Deviation from Average.	Mean.	Deviation from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.	—	in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.																							
a, Islands ..	*p Baltasound*	*31*	—	—	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	*Baltasound.*
	a Lerwick	54	52	19th	31	16th	48·4	41·3	44·8	- 0·9	5	0·57	15	—	3·3	+ 0·7	33	•	•	•	•	•	•	Deerness.
	a Stornoway	51	53	19, 20	32	17th	50·6	41·4	45·9	0·0	6	0·89	23	- 10	2·0	- 0·7	20	•	•	•	•	•	•	Stornoway.
	a Castlebay, Barra Isd. ..	*37*	*54*	*18, 20*	*42*	*16, 17*	*52·0*	*46·4*	*49·1*	+ *1·1*	*7*	*0·79*	*20*	—	*1·7*	—	*17*							*Castlebay.*
b, Mainland.	*a* Wick	81	52	18-20	30	17th	48·0	37·1	42·4	- 3·9	4	0·41	10	- 9	•	•	•	•	•	•	•	•	•	•	•
	p Strathpeffer	200	56	20th	24	17th	51·1	36·9	43·8	- 1·5	3	0·58	15	- 2	2·4	- 0·5	24	•	•	•	•	•	•	Strathpeffer.
	p Glencarron	500	55	20th	26	17th	49·7	37·3	43·3	- 1·3	3	1·07	27	- 27	•	•	•	•	•	•	•	•	•	•	•
	p Fort Augustus.. ..	68	55	19th	26	17th	50·4	37·9	44·0	- 1·8	3	0·71	18	- 6	2·1	+ 0·1	21	•	•	•	•	•	•	Fort Augustus.
	p Fort William	171	55	19th	27	17th	49·9	39·3	44·4	- 2·7	3	0·74	19	- 25	•	•	•	•	•	•	•	•	•	•	•
1. SCOTLAND, E.																							
	p Gordon Castle	101	58	19, 20	29	17th	52·7	37·7	45·0	- 1·9	4	0·53	13	- 7	3·0	—	30	4	15	47·0	-2·5	51·1	-0·3	Crathes.
	a Nairn	82	56	21st	24	17, 18	50·3	34·1	42·0	- 4·2	3	0·43	11	- 3	*2·8*	—	*28*	•	•	•	•	•	•	*Gordon Castle.*
	a Aberdeen	46	58	19th	28	17th	50·7	35·9	43·1	- 3·8	3	0·43	11	- 8	3·1	—	31	•	•	•	•	•	•	Nairn.
	a Balmoral	930	53	19th	18	17th	44·4	31·4	37·7	- 5·1	3	0·68	17	- 5	4·1	+ 0·9	41	•	•	•	•	50·3	-0·2	Aberdeen.
	p Crieff	432	60	15th	22	17th	49·6	32·1	40·6	- 6·2	3	0·40	10	- 12	•	•	•	•	•	•	•	•	•	•	Balmoral.
															3·4	—	34	•	•	•	•	•	•	Balruddery.
	a Leith	18	56	18th	30	17th	50·3	36·9	43·6	- 4·6	2	0·35	9	- 3	•	•	•	•	•	•	•	•	•	•	•
	a West Linton	769	52	18th	18	17th	47·6	29·7	38·4	- 5·2	3	0·32	8	—	*3·8*	—	*37*	5	16	•	•	•	•	*West Linton.*
	p Marchmont	498	55	18th	26	17th	48·7	33·9	41·1	- 4·5	3	0·26	7	- 14	2·6	- 0·2	25	4	20	•	•	•	•	Marchmont.
	a Edinburgh	*441*	*55*	*18th*	*32*	*17th*	*48·7*	*33·3*	*43·4*	—	*2*	*0·29*	*7*	—	4·0	—	40	2	22	•	•	•	•	Edinburgh.
6. *a*, SCOTLAND, W.																							
	a Poltalloch	132	57	19th	—	—	49·7	—	—	—	5	1·14	29	0	•	•	•	•	•	•	•	•	•	•	•
	p Glasgow Observatory	180	54	18th	33	17th	48·9	38·4	44·0	- 2·6	3	0·31	8	- 12	1·8	- 0·5	18	3	23	•	•	•	•	Glasgow.
	p Rothesay	170	56	19th	35	17th	50·3	40·7	45·4	- 2·2	5	0·62	16	- 9	*2·4*	—	*24*	1	30	47·4	•	52·0	+0·5	*Rothesay.*
	a Kilmarnock	90	56	18, 19	30	17th	51·9	37·0	44·2	- 2·8	5	0·65	17	—	*2·4*	—	*23*	•	•	48·4	•	52·1	•	*Kilmarnock.*
	a Colmonell	170	60	19th	35	17th	53·4	40·7	46·9	- 0·5	3	0·69	18	- 8	•	•	•	0	32	•	•	•	•	•	•
	a Dumfries	160	56	19th	27	17th	51·7	35·9	43·6	- 3·4	2	0·24	6	- 15	*3·6*	—	*35*	4	22	49·1	•	54·0	•	*Dumfries.*
	Eskdalemuir	*799*	*52*	*18, 19*	*20*	*17th*	*47·7*	*30·6*	*38·9*	—	*3*	*0·44*	*11*	—	*3·6*	—	*35*	•	•	•	•	•	•	*Eskdalemuir.*
	p Cally, Gatehouse ..	120	58	19th	29	17th	53·6	35·3	44·2	- 2·7	4	0·91	23	- 5	•	•	•	•	•	•	•	•	•	•	•
b, I. OF MAN.	*p* Douglas	277	55	18, 19	40	16th	52·1	43·3	47·6	- 0·5	5	0·67	17	- 9	2·7	- 0·5	26	0	36	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
	a Alnwick Castle ..	210	58	18th	25	17th	50·7	34·1	42·2	- 5·0	4	0·22	6	- 15	4·4	—	43	4	18	43·8	-4·6	50·5	-0·1	Cockle Park.
	a Tynemouth	71	56	18th	31	17, 18	49·6	37·0	43·1	- 4·8	2	0·12	3	- 15	•	•	•	•	•	•	•	•	•	•	Tynemouth
	p Durham	336	57	15, 18	24	17th	51·1	34·1	42·4	- 4·6	2	0·17	4	- 15	3·6	+ 0·7	35	4	18	•	•	•	•	Durham.
a North ..	*p* Rounton	249	58	15th	26	17th	51·7	35·4	43·3	- 3·5	4	0·32	8	- 10	•	•	•	5	23	49·6	•	•	•	Rounton.
	a West Witton	*605*	*54*	*18th*	*28*	*17th*	*49·9*	*34·9*	*42·2*	—	*3*	*0·19*	*5*	—	•	•	•	5	23	48·3	•	51·7	•	*West Witton.*
	p Scarborough† ..	100	56	18th	35	17th	51·9	41·1	46·3	- 2·3	5	0·35	9	- 10	2·8	—	27	•	•	•	•	54·5	•	Scarborough.
	p York	56	61	15th	36	16, 17, 21	53·7	39·6	46·4	- 1·8	5	0·30	8	- 7	5·9	+ 1·2	38	•	•	51·9	-0·5	54·8	+1·1	York.
b, South ..	*a* Spurn Head	26	54	20th	39	17th	51·7	42·4	46·9	- 3·0	4	0·51	13	- 1	*3·3*	—	*32*	•	•	•	•	•	•	*Spurn Head.*
	a Lincoln	58	57	18th	33	21st	51·6	39·1	45·2	- 3·0	2	0·27	7	- 8	•	•	•	•	•	50·6	-1·1	54·0	+0·1	Lincoln.
	a Fulbeck	180	56	18th	30	16th	51·4	38·9	45·9	- 3·9	4	0·29	7	- 8	3·6	—	35	2	25	51·8	+0·2	54·9	+0·6	Rauceby.
															3·5	—	34	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																							
	p Cromer	196	59	19th	36	17th	52·7	42·1	47·2	- 1·1	6	0·69	18	—	2·7	—	26	•	•	•	•	•	•	Cromer.
	p Little Massingham ..	280	59	15th	31	21st	51·4	37·6	44·3	- 4·1	4	0·38	10	- 8	5·3	+ 0·2	32	1	29	•	•	•	•	Lit. Massingham.
a, North ..	*a* Yarmouth	13	55	15, 18	35	17, 18	52·1	41·3	46·5	- 3·2	5	0·87	22	+ 4	3·3	—	32	•	•	52·7	- 1·4	55·6	-0·6	Yarmouth.
	a Norwich	93	54	15th	30	21st	50·6	39·0	44·6	- 4·0	5	0·71	18	—	*2·8*	—	*27*	2	24	51·4	•	•	•	*Norwich.*
	a Geldeston	37	56	15th	28	21st	52·0	37·9	44·7	- 4·7	5	0·55	14	- 3	2·8	- 0·7	27	•	•	•	•	•	•	Geldeston.
b, South ..	*p* Cambridge	41	61	15th	27	21st	53·4	37·4	45·2	- 3·4	3	0·25	6	- 7	4·0	+ 0·6	38	3	22	53·3	+0·2	56·4	+0·7	Cambridge.
	a Clacton-on-Sea ..	54	56	15, 18	34	17th	52·4	41·7	46·9	- 3·4	3	0·56	14	—	3·4	—	33	0	31	53·3	-2·1	57·0	+0·8	Clacton.
	a Rothamsted	424	54	15, 18	27	21st	50·9	37·9	44·2	- 4·0	4	0·54	14	- 3	4·1	+ 0·6	39	4	20	51·5	•	•	•	Rothamsted.
	p Tottenham	51	61	15th	31	21st	53·3	40·9	46·9	- 1·7	2	0·67	17	—	3·5	—	34	1	28	•	•	57·7	+0·4	Tottenham.
4. MIDLAND COUNTIES.																							
a North ..	*a* Harrogate	479	55	18th	30	21st	50·1	35·7	42·7	- 4·1	4	0·30	8	- 11	3·7	—	36	4	24	49·5	-1·0	52·2	+0·8	Harrogate.
	p Buxton	*987*	*56*	*15th*	*28*	*21st*	*48·4*	*38·4*	*42·2*	- *2·2*	*4*	*0·60*	*15*	- *15*	*3·4*	—	*33*	1	24	48·4	-2·6	53·2	+1·0	*Buxton.*
															3·9	—	37	1	25	50·9	-0·2	53·6	+0·7	Sheffield.
	a Bawtry	65	55	18th	27	21st	51·9	36·1	43·8	- 3·5	2	0·16	4	- 10	3·2	+ 0·5	31	5	22	50·5	•	53·6	•	Worksop.
	a Nottingham	82	57	18th	27	21st	51·7	38·4	44·9	- 3·1	3	0·20	5	- 9	3·7	—	36	3	28	50·3	-1·0	54 6	+0·3	Nottingham.
b, East ..	*p* Birmingham, Edgbsn.	535	59	15th	32	21st	52·6	40·9	46·6	- 1·1	5	0·27	7	- 8	4·8	—	46	3	22	49·9	-0·5	52·9	+0·7	Birmingham.
	a Raunds	203	57	19th	27	21st	52·7	35·9	44·1	- 4·0	3	0·28	7	—	*3·9*	—	*37*	4	17	55·1	•	55·5	•	*Raunds.*
	p Oxford	208	59	15, 18	29	21st	54·3	40·0	46·9	- 1·5	3	0·67	17	+ 2	5·3	+ 2·0	51	3	22	•	•	•	•	Oxford
	a Cheadle	646	54	18, 19	31	21st	51·1	37·4	44·1	- 2·3	4	0·39	10	- 8	•	•	•	2	27	•	•	•	•	Cheadle.
c, West ..	*p* Shrewsbury	191	60	15th	24	21st	54·4	35·6	44·7	- 3·3	5	0·57	15	—	•	•	•	1	24	•	•	•	•	Shrewsbury.
	a Hereford§	291	60	18th	33	21st	54·4	41·0	47·5	- 0·9	4	0·54	14	- 1	*5·5*	—	*53*	2	23	52·6	•	56·1	•	*Malvern.*§
	a Bath	68	60	18th	35	21st	55·9	41·3	48·4	- 1·2	3	0·77	20	+ 3	•	•	•	•	•	55·5	+0·2	58·0	+0·8	Bath.
5. ENGLAND, S.E.																							
	a Marlborough	424	60	18th	27	21st	52·7	38·1	44·2	- 1·9	2	0·59	15	- 4	4·8	—	46	1	29	54·9	+1·9	58·2	+1·2	Worthing.
	a Margate	53	57	15th	39	17th	52·7	45·6	49·1	- 1·9	4	0·71	18	+ 2	4·2	+ 1·1	40	3	21	53·2	•	55·7	•	Marlborough.
	a Wisley, Surrey ..	150	58	18th	27	21st	53·3	38·7	45·8	- 4·0	3	0·88	22	—	3·6	+ 0·1	35	0	33	54·1	+0·9	58·4	+2·9	Margate.
	p Salisbury (Wilton) ..	180	63	1d, 19	30	21st	58·0	37·9	47·7	- 0·8	2	0·39	10	- 10	4·5	—	43	4	19	53·5	+0·2	56·1	+0·5	Wisley.
	a Tunbridge Wells ..	354	56	15, 18, 19	29	21st	53·1	39·7	46·2	- 2·5	2	1·51	38	+ 18	•	•	•	2	27	54·1	•	•	•	Salisbury.
															3·7	+ 0·2	36	4	19	54·4	+0·6	57·2	•	Tunbridge Wells.
	a Dungeness	21	60	15, 16	33	17, 18	55·4	41·4	48·2	- 3·7	3	1·31	33	+ 15	•	•	•	•	•	•	•	•	•	•	Littlestone.
	p Hastings	178	61	15th	37	21st	54·4	41·9	48·0	- 3·1	3	0·87	22	+ 1	4·8	+ 0·9	45	0	32	54·5	•	57·9	•	Hastings.
	p Southampton	64	60	15th	35	21st	54·6	42·1	48·2	- 2·6	3	0·67	17	- 3	4·1	+ 0·5	39	3	29	•	•	•	•	Southampton.
	a Ventnor	59	61	18th	42	16th	55·6	46·9	51·1	- 1·4	3	0·65	17	+ 3	3·9	0·0	37	•	•	•	•	•	•	Ventnor.
LONDON.	*p* Kew Observatory ..	18	61	15th	30	21st	53·8	40·6	47·0	- 2·0	3	0·79	20	+ 5	3·9	+ 0·9	37	3	22	53·1	- 0·9	55·9	+0·6	Kew Obs.
	a Westminster	*27*	*58*	*18, 19*	*33*	*21st*	*54·8*	*42·8*	*48·6*	- *0·2*	*3*	*0·65*	*17*	+ *2*	*3·4*	+ *0·2*	*33*	0	32	•	•	•	•	*Westminster.*
	a Greenwich	*155*	*57*	*15th*	*29*	*21st*	*53·5*	*40·7*	*46·8*	- *2·5*	*2*	*0·66*	*17*	+ *3*	*3·7*	+ *0·7*	*36*	2	24	•	•	•	•	*Greenwich.*
	a Hampstead	*450*	*59*	*19th*	*32*	*21st*	*51·9*	*39·5*	*45·6*	—	*2*	*0·71*	*18*	—	*3·8*	—	*37*	4	19	•	•	•	•	*Hampstead.*
	a Camden Square ..	*110*	*58*	*18th*	*30*	*21st*	*54·6*	*40·3*	*47·2*	—	*3*	*0·71*	*18*	—	*3·5*	—	*34*	0	31	•	•	•	•	*Camden Square.*
7. *a*, ENGLAND, N.W.																							
	p Aspatria (Mealsgate)	487	53	18, 19	31	17th	49·7	38·0	43·7	- 3·4	2	0·32	8	- 15	3·9	—	38	•	•	•	•	•	•	Hoylake.
	p Newton Rigg	559	57	15, 19	25	17th	51·0	34·7	42·6	- 3·2	3	0·37	10	- 12	4·3	—	42	2	27	48·4	•	52·5	•	Aspatria.
	p Stonyhurst	375	58	15th	34	21st	51·4	40·1	45·6	- 1·3	4	0·53	13	- 14	4·4	+ 1·7	43	4	22	49·0	- 2·0	52·5	+0·3	Newton Rigg.
	p Blackpool	66	57	18th	35	21st	52·6	41·6	46·9	- 1·8	4	0·34	9	- 13	3·9	+ 1·1	37	3	25	•	•	•	•	Stonyhurst.
	a Southport	37	57	18th	34	21st	52·9	41 4	47·0	- 1·4	4	0·48	12	- 9	3·9	+ 0·9	37	1	29	52·7	•	55·2	•	Blackpool.
	a Liverpool (Bidston) ..	188	55	18th	34	21st	51·3	42 6	46·8	- 2·7	5	0·67	17	- 3	4·3	+ 1·5	41	2	30	50·0	-1·1	54·9	+0·8	Southport.
	a Hawarden Bridge ..	22	66	15th	33	21st	55·1	42·9	48·8	- 0·8	5	0·83	21	+ 3	*4·1*	—	*39*	•	•	•	•	•	•	*Liverpool.*
	p Manchester (Whit. Pk.)	125	60	15th	35	16, 21	53·6	41·7	47·5	- 0·3	5	0·38	10	- 8	2·7	—	26	1	29	51·5	- 0·2	56·6	+1·7	*Manchester (City)*
															2·8	+ *0·6*	27	•	•	•	•	•	•	" *(Whit. Park)*
b, NORTH WALES.																							
	p Llandudno	71	63	15th	39	21st	54·6	43·7	49·0	- 1·7	4	0·46	12	- 9	3·3	+ 0·5	32	•	•	•	•	•	•	Llandudno.
	a Holyhead	15	56	18, 19	42	20th	53·4	46·3	49·8	- 0·7	3	0·39	10	- 12	*2·6*	—	*25*	•	•	•	•	•	•	*Holyhead.*
	p Bettws-y-Coed ..	148	58	15th	34	21st	52·4	40·1	46·1	- 3·7	4	0·56	14	—	2·9	—	28	•	•	50·6	+0·2	53·7	+1·3	Bettws-y-Coed.
															3·1	—	30	•	•	•	•	•	•	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. Degrees Fahrenheit. Highest	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	Bright Sunshine. Hours per Day. Daily Mean	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft. Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														2·8	—	27	*	*	*	*	*	*	
a Llangammarch Wells	550	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	Aberystwyth.
a Pembroke	149	57	17, 18	44	29th	54·1	48·0	51·0	− 0·3	4	0·56	14	− 8	3·0	− 0·4	29	*	*	*	*	*	*	Llangammarch.
p Cardiff	202	61	15th	39	16, 21	55·1	42·4	48·6	+ 0·2	4	0·63	16	− 10	*4·2*	—	*40*	0	32	54·6	+1·6	56·8	+1·8	Pembroke.
																							Cardiff.
b, ENGLAND, S.W.																							
a Clifton	239	58	18th	38	21st	54·0	44·0	48·9	+ 0·2	2	0·56	14	− 7	*4·4*	—	*42*	0	36	*	*	*	*	*Clifton.*
a Shaftesbury	722	57	18th	35	21st	52·4	40·6	46·3	− 2·2	4	0·75	19	− 1	*	*	*	*	*	53·4	*	56·7	*	Shaftesbury.
a Arlington	613	56	18th	39	21st	53·1	43·4	48·1	− 0·4	4	0·73	19	− 18	*	*	*	*	*	*	*	*	*	Arlington.
a Newquay	*190*	*59*	*17th*	*39*	*20, 21*	*54·9*	*47·3*	*51·0*	− *0·9*	*3*	*0·78*	*20*	*0*	3·2	− 0·4	30	*	*	56·9	*	58·0	*	Newquay.
a Cullompton	202	59	18th	35	16th	55·1	41·9	48·3	− 0·9	4	0·71	18	− 3	3·7	+ 0·6	35	1	30	54·4	*	*	*	Cullompton.
a Portland Bill	19	60	18th	45	21st	54·6	49·4	51·9	− 0·5	3	0·31	8	—	*5·2*	—	*49*	*	*	*	*	*	*	*Weymouth.*
p Plymouth	116	60	15th	39	16th	56·3	45·6	50·8	− 0·4	3	0·65	16	− 5	4·0	+ 0·5	38	*	*	54·8	−0·1	57·5	*	Plymouth.
a Falmouth	167	61	17th	41	21st	56·7	45·7	51·0	− 0·6	5	0·65	16	− 11	3·2	− 0·6	30	0	31	57·7	*	59·7	*	Falmouth.
9. IRELAND, N.																							
a, West .. { *a* Malin Head	208	54	19, 20	40	17th	51·9	44·9	48·3	− 0·6	5	0·79	20	+ 2	*0·7*	—	*7*	*	*	*	*	*	*	*Malin Head.*
a Blacksod Point ..	327	53	18–20	42	15th	53·9	47·3	50·5	+ 0·6	7	2·37	60	+ 31	*	*	*	*	*	*	*	*	*	*
p Markree Castle ..	122	58	17th	39	15th	54·3	44·3	49·2	+ 2·0	7	1·12	28	+ 4	0·7	− 2·2	7	0	33	53·1	*	55·2	*	Markree Castle.
a Birr Castle	175	57	17th	38	18th	53·7	44·3	48·9	+ 1·7	6	0·43	11	− 5	*1·0*	− *2·2*	*10*	*	*	*	*	*	*	*Birr Castle.*
b, East .. { *p* Armagh	196	54	17–20	34	21st	52·4	41·6	46·8	− 0·5	4	0·40	10	− 5	1·0	− 1·9	10	0	34	52·8	+0·8	54·8	+1·0	Armagh.
a Donaghadee	101	55	19th	40	17th	52·6	44·4	48·4	− 0·5	4	0·47	12	− 4	*	*	*	*	*	*	*	*	*	*
														*	*	*	0	36	53·9	+1·2	55·5	+1·3	Trinity Coll.
10. IRELAND, S.														0·1	− 3·4	1	0	34	*	*	*	*	Phœnix Park.
a, East .. { *p* Dublin, City	47	57	18th	40	16th	53·9	45·9	49·8	+ 0·6	4	0·45	11	− 4	*	*	*	0	36	*	*	*	*	Dublin City.
a Kilkenny	212	60	17th	32	16th	54·1	43·1	48·4	+ 0·3	6	0·55	14	− 3	*	*	*	*	*	*	*	*	*	*
a Waterford	20	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	*
a Seskin, Carrick-on-Suir	*541*	*61*	*17th*	*38*	*16th*	*53·1*	*44·4*	*48·6*	—	*7*	*0·64*	*16*	—	*1·5*	—	*14*	0	35	*	*	*	*	*Seskin.*
b, West .. { *a* Birr Castle	175	57	17th	38	16th	53·7	44·3	48·9	+ 1·7	6	0·43	11	− 5	1·0	− 2·2	10	*	*	*	*	*	*	Birr Castle.
a Foynes	50	61	20th	44	15, 16	55·6	48·1	51·7	+ 2·2	7	1·21	31	+ 10	*	*	*	*	*	*	*	*	*	*
a Cahir	199	60	17th	34	16th	55·4	44·9	50·0	+ 0·6	5	0·49	12	—	*	*	*	*	*	*	*	*	*	*
a Killarney	174	62	19th	42	16th	57·7	48·9	53·2	+ 3·9	6	5·96	151	+121	*	*	*	*	*	*	*	*	*	*
a Valencia	30	58	18, 19	46	16, 17	56·1	50·1	53·0	+ 1·7	7	3·04	77	+ 47	1·2	− 2·1	12	*	*	*	*	*	*	Valencia.
a Roche's Point ..	32	60	17th	44	16, 17	56·7	48·4	52·4	+ 1·5	7	1·20	31	+ 8	1·7	—	16	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	61	17th	48	21st	57·4	50·4	53·8	+ 0·4	5	0·40	10	− 10	4·3	+ 0·5	41	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	61	18th	39	21st	56·6	49·1	52·7	− 1·1	5	0·87	22	− 3	4·9	+ 0·8	46	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	61	18th	42	21st	57·1	50·0	53·5	− 0·1	3	0·55	14	− 12	5·4	+ 1·5	51	0	36	56·1	−0·6	59·5	+0·9	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, October 21st, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Above Ground.	Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Dur-ation.	High Winds, forces 6 and 7. Dates of Occurrence.	Dur-ation.	Fresh or Moderate Winds, forces 4 and 5. Dur-ation.	Light Winds, forces 2 and 3. Dur-ation.	Calms and Light Airs, forces 0 and 1. Dur-ation.	No Record. Dur-ation.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.		Date and Hour, G.M.T.	Highest Gust with Date and Time, G.M.T.		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.		m/s.	d.	h. m.
1. SCOTLAND, E.																	
Dyce	305	75	‡15**	—	—	—	—	12	79	77	0	—	8	15th 5h.	21	15th	0 . 38
Aberdeen*	153	105	37 †	—	—	15th	4	52	97	15	0	W. by S.	14	15th 1h.	25	15th	2 . 13
			52 †														
Edinburgh	485	39	31	—	—	15th	3	40	106	19	0	WSW.	12	15th 2h.	24	15th	0 . 40
6 SCOTLAND, W.																	
Eskdalemuir	850	50	22	—	—	15th	5	25	57	81	0	W.	13	15th 2h.	23	15th	2 . 45
Paisley	188	81	52	—	—	15th	1	11	101	55	0	NW. by W.	11	15th 1h.	27	15th	1 . 6
2. ENGLAND, N.E.																	
Alnwick Castle	340	70	17	—	—	—	—	16	93	59	0	W. by N.	7	15th 9h.	16	15th	3 . 10
South Shields	72	61	12	—	—	15th	11	24	121	12	0	W. by N.	16	15th 1h.	25	15th	1 . 5
Spurn Head	66	40	‡	—	—	15, 16, 19	21	63	78	6	0	NW.	15	15th 10h.	22	15th	15 . 34
3. ENGLAND, E.																	
Gorleston	52	42	‡	—	—	—	—	73	77	6	12	—	10	17th 24h.	17	15th	0 . 30
Shoeburyness	103	90	‡	—	—	17th	1	70	85	12	0	S.	11	17th 21h.	15	17th	21 . 6
4. MIDLAND COUNTIES.																	
Benson	270	84	‡	—	—	—	—	27	107	34	0	SE.	9	17th 18h.	17	15th	0 . 56
5. ENGLAND, S.E.																	
Dover	271	40	‡‡	—	—	15, 17, 19	14	69	77	8	0	—	15	15th 1h.	22	15th	0 . 35
Warlingham	642	33	‡‡	—	—	—	—	4	124	40	0	—	7	15th 1h.	15	15th	0 . 35
Brighton	261	53	6	—	—	—	—	20	139	9	0	—	9	17th 20h.	17	17th	19 . 26
Kew Observatory ..	82	65	6 †	—	—	—	—	17	102	49	0	WNW.	7	15th 12h.	14	15th	2 . 33
			22 †														
South Kensington ..	123	92	30	—	—	—	—	—	88	80	0	W. by S.	5	15th 11h.	14	15th	2 . 29
7. ENGLAND, N.W.																	
Carnforth	246	56	23	—	—	15th	2	12	24	130	0	W. by S.	12	15th 1h.	18	15th	1 . 50
Southport	80	62	48	15th	10	15, 16, 18	13	61	84	0	0	W.	19	15th 6h.	23	15th	3 . 49
Holyhead*	60	40	‡	15th	4	15, 16, 18, 19	39	91	34	0	0	WNW.	18	15th 1h.	21	15th	14 . 42
8. ENGLAND, S.W.																	
Pendennis Castle§ ..	256	65	24	—	—	15, 17, 20, 21	30	83	53	2	0	SSE.	14	21st 24h.	19	15th	14 . 12
Plymouth	185	88	‡	—	—	17th	3	53	81	29	0	—	14	17th 12h.	19	17th	12 . 6
Lyme Regis	556	61	‡‡	—	—	21st	3	69	71	25	0	—	13	21st 24h.	17	17th	14 . 30
10. IRELAND, S.																	
Quilty	100	40	‡	15th	3	15, 17, 18, 21	19	97	38	0	11	—	17	15th 6h.	26	15th	—
Weaver Pt.	160	30	‡‡	—	—	—	—	—	—	—	—	—	—	— —	—	—	—
11. ENGLISH CHANNEL.																	
Scilly*	150	32	‡	—	—	15, 18, 19, 21	38	71	35	24	0	NNW.	14	15th 17h.	22	15th	0 . 55
		19															

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.

† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

FORTY-SECOND WEEK—October 15th to October 21st, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Mean for the Week at M.S.L.
			Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	56	24	82·8	76·7	79·7	− 0·9	26	− 9	9	0	4	− 1	0·71	18	− 10	2·5	−0·1	24	1012
Eastern.																			
1. SCOTLAND, EAST ...	60	18	82·6	74·1	78·2	− 2·2	20	− 17	31	+ 20	3	− 1	0·43	11	− 6	3·4	+0·6	33	1014
2. ENGLAND, N.E.	66	24	83·9	76·2	79·9	− 1·7	36	− 7	12	+ 7	4	0	0·28	7	− 12	3·6	+0·6	35	1017
3. ENGLAND, EAST ...	61	27	84·2	77·2	80·6	− 1·5	36	− 15	7	+ 1	4	0	0·58	15	− 2	3·4	+0·1	33	1017
4. MIDLAND COUNTIES ...	60	24	84·6	76·4	80·4	− 1·0	40	− 6	11	+ 3	4	0	0·42	11	− 6	4·1	+1·1	39	1018
5. ENGLAND, S.E.	63	27	85·4	78·2	81·7	− 1·1	43	− 15	2	− 2	3	0	0·84	21	+ 2	4·2	+0·8	40	1018
Western.																			
6. SCOTLAND, WEST ...	60	27	83·9	76·8	80·3	− 1·1	35	− 8	9	+ 2	4	0	0·65	17	− 9	2·3	−0·4	22	1016
7. ENGLAND, N.W.	66	25	84·4	78·1	81·2	− 0·9	36	− 12	2	− 2	4	+ 1	0·49	13	− 9	3·7	+1·0	36	1017
8. ENGLAND, S.W. ...	61	35	85·6	80·0	82·7	− 0·1	52	− 6	0	− 3	4	0	0·62	16	− 10	3·3	0·0	32	1018
9. IRELAND, NORTH ...	58	34	84·7	79·9	82·3	+ 0·7	47	+ 2	0	− 5	6	+ 2	0·93	24	+ 3	0·9	−2·1	8	1014
10. IRELAND, SOUTH ...	62	32	86·0	81·2	83·5	+ 1·1	62	+ 8	0	− 4	6	+ 2	1·67	42	+ 20	1·0	−2·3	10	1018
11. ENGLISH CHANNEL ...	61	39	86·9	82·9	84·8	0·0	79	+ 1	0	0	4	− 1	0·61	15	− 8	4·9	+0·9	46	1019

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 7 Weeks, September 3rd to October 21st, 1916.

0. SCOTLAND, NORTH ...	71	24	86·0	80·1	83·0	+ 0·2	402	+ 6	9	− 12	33	− 1	10·47	267	+ 65	2·3	−0·7	20	1011
Eastern.																			
1. SCOTLAND, EAST ...	74	18	87·2	79·2	83·0	0·0	420	− 5	31	+ 5	26	− 2	5·38	136	+ 26	3·3	−0·3	28	1013
2. ENGLAND, N.E.	74	24	88·4	81·2	84·7	+ 0·6	560	+ 60	12	+ 2	23	− 2	3·10	80	− 15	3·5	−0·5	29	1015
3. ENGLAND, EAST ...	71	27	89·1	82·0	85·5	+ 0·6	616	+ 45	7	− 6	23	− 1	2·56	65	− 29	3·3	−1·1	28	1016
4. MIDLAND COUNTIES ...	73	24	89·2	81·4	85·2	+ 1·0	601	+ 80	11	− 7	23	− 1	3·09	79	− 19	3·1	−0·8	26	1016
5. ENGLAND, S.E.	73	27	89·8	83·1	86·3	+ 0·7	690	+ 62	2	− 6	22	− 1	3·72	96	− 12	3·5	−1·0	30	1017
Western.																			
6. SCOTLAND, WEST ...	72	27	87·6	81·3	84·3	+ 0·6	523	+ 56	9	− 5	31	+ 3	7·73	197	+ 16	2·8	−0·8	24	1014
7. ENGLAND, N.W.	75	25	88·4	82·5	85·4	+ 0·9	603	+ 74	2	− 4	27	+ 1	6·27	161	+ 21	2·7	−1·0	23	1016
8. ENGLAND, S.W.	72	34	89·4	83·9	86·5	+ 1·3	705	+114	0	− 5	24	− 3	5·60	143	− 7	3·0	−1·3	25	1017
9. IRELAND, NORTH ...	73	34	88·4	82·9	85·5	+ 1·5	614	+125	0	− 8	34	+ 3	6·54	166	+ 25	2·1	−1·3	18	1014
10. IRELAND, SOUTH ...	77	32	89·6	84·0	86·7	+ 2·0	714	+165	0	− 7	34	+ 7	6·87	175	+ 44	2·3	−1·7	20	1016
11. ENGLISH CHANNEL ...	73	39	90·1	85·6	87·7	+ 0·8	807	+ 71	0	0	24	− 5	4·54	115	− 13	4·1	−1·2	34	1017

THE YEAR.—Aggregates, &c., for the Period of 42 Weeks, January 2nd to October 21st, 1916.

0. SCOTLAND, NORTH ..	81	20	84·2	78·4	81·2	+ 0·1	1896	− 54	463	−115	199	+ 5	44·44	1127	+127	2·9	−0·6	22	1010
Eastern.																			
1. SCOTLAND, EAST ...	82	7	85·0	77·8	81·3	− 0·1	2035	−160	616	− 30	176	+15	32·97	838	+231	3·5	−0·7	26	1011
2. ENGLAND, N.E.	84	20	86·3	79·2	82·6	+ 0·4	2568	+118	391	− 94	154	+ 9	21·32	544	+ 54	3·8	−0·7	29	1012
3. ENGLAND, EAST ..	83	24	87·1	79·7	83·2	+ 0·3	2852	+ 21	360	−174	155	+15	21·33	540	+ 70	4·1	−0·8	31	1013
4. MIDLAND COUNTIES ...	84	21	87·2	79·2	83·0	+ 0·3	2814	+ 57	416	−135	150	+11	22·17	566	+ 42	3·8	−0·6	29	1013
5. ENGLAND, S.E.	86	15	87·6	80·3	83·8	+ 0·3	3084	+ 37	296	− 93	148	+15	23·02	586	+ 70	4·5	−0·5	35	1014
Western.																			
6. SCOTLAND, WEST ...	83	17	85·8	79·2	82·4	+ 0·2	2434	+ 64	374	− 65	179	+11	35·98	918	+ 5	4·0	−0·3	31	1012
7. ENGLAND, N.W.	83	8	86·3	80·0	83·0	+ 0·3	2682	+ 86	312	− 80	160	+ 6	28·39	723	+ 44	3·9	−0·4	30	1013
8. ENGLAND, S.W.	84	17	87·2	80·5	83·6	+ 0·2	2962	+ 79	279	− 27	158	+ 6	31·03	795	+ 67	4·5	−0·4	35	1014
9. IRELAND, NORTH ...	81	18	85·9	79·6	82·7	+ 0·2	2530	+ 54	334	− 19	194	+11	31·09	795	+ 45	3·5	−0·4	27	1012
10. IRELAND, SOUTH ...	85	20	87·2	80·5	83·7	+ 0·3	3000	+165	244	− 22	199	+37	31·85	805	+ 34	4·1	−0·4	32	1014
11. ENGLISH CHANNEL ...	80	30	87·5	82·3	84·8	+ 0·2	3395	+ 73	85	− 24	155	− 7	24·42	617	+ 17	5·3	−0·6	41	1015
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics. South Kensington, S.W., October 26th, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

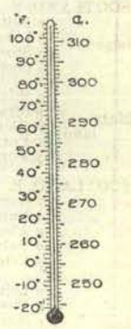
PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.: or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) No. 43. SUNDAY, OCTOBER 22ND, TO SATURDAY, OCTOBER 28TH, 1916.

Price 6d., Post free 7d.
Annual Subscription Post paid £1 10s 0d.

I.—THE FORTY-THIRD WEEK OF 1916.

The unsettled conditions of the preceding period were continued during the present week, rain falling daily in nearly all districts. The number of rain days was in excess of the normal over practically the whole of the country but the quantity of precipitation was less uniform. There was an excess of about 35 mm. in England S.W., the English Channel and Ireland S., but in England N.E. and both Scotland W. and N. the fall was below the normal, in the latter district by 13 mm. There were few days of heavy rain in the eastern part of the country but in the west there were several cases of 25 mm. or more, the largest daily falls being 57 mm. at Blacksod Point on the 24th and 39 mm. at Aberdovey on the 27th. Waterford, Tenby and Lerwick also reported falls of over 30 mm. Thunderstorms were extremely numerous in the eastern districts on the 27th, mainly during the afternoon or evening. Sunshine was somewhat below the normal in most districts but the departures were small except in Scotland N. and W. Solar halos were observed at Oxford on many days, also on Tuesday and Wednesday at Greenwich, and on Monday at Tunbridge Wells. Mean temperature was a little deficient in some districts but the departure from the normal was in no case as great as 1 a. The highest day temperature observed was 289 a. in London and at Geldeston on the 23rd, but values between 285 and 288 a. were experienced in most other parts of the country. Minima down to the freezing point occurred at many stations on the night either of the 21st or 26th, the lowest reading being 267·5 a. at West Linton. The exposed thermometer on the grass fell to 265 a. at Raunds and Hampstead at the beginning of the week. Sea temperature somewhat above the normal was reported off the coast of Galway. At other sea temperature stations the water was colder than the normal.



WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.
		m/s		m/s		m/s		m/s		m/s		m/s		m/s		m/s
South	6	5·3	5	3·2	6	5·3	7	3·3	6	4·6	4	7·1	5	5·5	3	5·2
North	¼	0·3	2	1·6	1	2·8	0	—	¼	6·4	2	4·7	1	5·2	3	5·6
West	¼	0·8	1	2·6	3	2·1	4	1·5	3	6·1	6	10·2	3	4·8	4	8·1
East	6	6·5	5	2·9	3	4·5	3	2·9	3	7·8	1	8·9	3	10·2	3	4·8
Calm	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c. is printed on a separate sheet. *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Deficient	Moderate	Moderate	Deficient	Deficient	Moderate
	Rainfall ...	Light	Heavy	Moderate	Moderate	Heavy	Heavy	Moderate	Heavy	Very heavy	Heavy	Heavy	Very heavy
	Sunshine ...	Scanty	Moderate	Moderate	Moderate	Moderate	Moderate	Scanty	Moderate	Moderate	Moderate	Moderate	Moderate

II.—THE AUTUMN SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

AUTUMN. 8 weeks from Sept. 3rd, 1916.	Warmth ...	3, 2, 3	3, 3, 2	4, 3, 1	3, 2, 3	4, 3, 1	3, 3, 2	4, 2, 2	4, 2, 2	4, 4, 0	4, 3, 1	4, 3, 1	3, 4, 1
	Rainfall ...	1, 3, 4	3, 4, 1	2, 2, 4	1, 4, 3	2, 3, 3	2, 3, 3	2, 4, 2	3, 2, 3	3, 1, 4	3, 4, 1	3, 3, 2	2, 4, 2
	Sunshine ...	1, 2, 5	2, 4, 2	0, 5, 3	0, 3, 5	1, 2, 5	1, 3, 4	0, 2, 6	1, 2, 5	0, 3, 5	0, 3, 5	0, 2, 6	1, 2, 5

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.) and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.

Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(9505—19.) Wt. 79a—736, 450. 11/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts	Lowest Reading.	Mean.	Deviation from Average.	Mean.	Deviation from Average.	
	Ft.	°F.	—	°F.	—	°F.	°F.	°F.	°F.	—	in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.																							
p Baltasound	*37*	—	—	—	—	—	—	—	—	—	—	—	—				•	•	•	•	•	•	*Baltasound.*
a, Islands .. a Lerwick ..	54	51	24th	45	22, 23, 28	49·7	45·7	47·6	+ 2·6	6	2·48	63	—	1·3	- 1·1	14	•	•	•	•	•	•	Dearness.
a Stornoway	51	54	25th	36	27th	50·6	42·4	46·4	+ 1·3	6	0·40	10	- 24	2·2	- 0·2	23	•	•	•	•	•	•	Stornoway.
a Castlebay, Barra Isd. ..	*37*	*65*	*28th*	*45*	*24, 27, 28*	*51·7*	*46·7*	*49·1*	*+ 1·7*	*6*	*0·29*	*7*	—	*1·9*	—	*20*	•	•	•	•	•	•	*Castlebay.*
a Wick	81	51	24, 25	30	27th	49·9	41·1	45·4	+ 0·3	5	0·72	18	0	•	•	•	•	•	•	•	•	•	•
b, Mainland. p Strathpeffer ..	200	54	25th	29	27th	50·0	36·4	43·0	- 1·2	3	0·12	3	- 14	1·6	- 1·0	17	•	•	•	•	•	•	Strathpeffer.
p Glencarron ..	500	52	24, 25	31	27th	48·7	37·1	42·7	- 0·7	2	0·14	4	- 50	•	•	•	•	•	•	•	•	•	•
p Fort Augustus..	68	54	25th	29	27th	50·7	39·4	44·9	+ 0·1	6	0·13	3	- 22	1·2	- 0·6	12	•	•	•	•	•	•	Fort Augustus.
p Fort William ..	171	53	24, 25	33	27th	50·0	40·1	44·9	- 0·8	7	0·58	15	- 30	•	•	•	•	•	•	•	•	•	•
1. SCOTLAND, E.																							
p Gordon Castle ..	101	55	26th	28	27th	51·4	35·9	43·4	- 1·8	5	0·65	17	- 3	2·4	—	25	4	18	45·1	-2·6	49·1	-1·2	Crathes.
a Nairn	*82*	*55*	*25th*	*29*	*27, 28*	*49·6*	*34·1*	*41·6*	*- 3·3*	*3*	*0·09*	*2*	*- 11*	*2·8*	—	*32*	•	•	•	•	•	•	*Gordon Castle.*
a Nairn	82	55	25th	29	27, 28	49·6	34·1	41·6	- 3·3	3	0·09	2	- 11	2·4	—	25	•	•	•	•	•	•	Nairn.
a Aberdeen ..	46	52	24-26	30	28th	50·7	38·1	44·2	- 1·3	6	1·22	31	+ 14	2·2	- 0·7	23	•	•	•	•	48·8	- 0·8	Aberdeen.
a Balmoral	930	49	24th	26	27th	45·4	34·9	40·0	- 1·5	5	2·08	53	+ 31	•	•	•	2	22	•	•	•	•	Balmoral.
p Crieff	432	50	25, 26, 28	27	27th	48·1	36·4	42·1	- 3·2	6	0·87	22	- 1	2·6	—	27	•	•	•	•	•	•	Balruddery.
a Leith	18	55	24th	35	27th	50·6	38·3	44·3	- 2·6	5	0·44	11	- 1	•	•	•	•	•	•	•	•	•	•
a West Linton ..	769	50	24th	22	27th	47·1	34·0	40·4	- 1·5	5	0·44	11	—	*2·1*	—	*22*	4	22	•	•	•	•	*West Linton.*
p Marchmont ..	498	54	24th	29	22nd	49·0	37·0	42·8	- 1·3	6	0·67	17	- 4	1·6	- 0·2	16	2	24	•	•	•	•	Marchmont.
a Edinburgh	*441*	*53*	*24th*	*30*	*22nd*	*48·7*	*38·7*	*43·6*	—	*5*	*0·39*	*10*	—	2·8	—	29	3	27	•	•	•	•	Edinburgh.
6. a, SCOTLAND, W.																							
a Poltalloch	132	52	24, 25	—	—	48·9	—	—	—	7	0·48	12	- 17	•	•	•	•	•	•	•	•	•	•
p Glasgow Observatory	180	53	25th	35	27th	48·9	40·9	44·8	- 0·5	6	0·36	9	- 15	1·0	- 0·9	10	1	28	•	•	•	•	Glasgow.
p Rothesay	170	52	26th	37	27th	49·0	41·4	45·1	- 1·4	6	0·32	8	- 17	*1·3*	—	*13*	0	32	45·9	•	50·3	-0·3	*Rothesay.*
a Kilmarnock	90	55	25th	34	27th	50·7	40·3	45·4	- 0·4	6	0·32	8	—	*1·8*	—	*19*	•	•	46·3	•	50·7	•	*Kilmarnock.*
a Colmonell	170	55	25th	35	27th	51·3	40·6	45·8	- 0·2	6	0·73	19	- 8	•	•	•	1	30	•	•	•	•	•
a Dumfries	180	54	24th	32	27th	49·9	39·4	44·5	- 1·6	7	1·10	28	+ 6	*1·9*	—	*20*	2	27	45·8	•	51·5	•	*Dumfries.*
Eskdalemuir ..	*794*	*51*	*24th*	*28*	*22, 27*	*47·4*	*33·1*	*40·0*	—	*6*	*1·11*	*28*	—	*2·2*	—	*23*	•	•	•	•	•	•	*Eskdalemuir.*
p Cally, Gatehouse ..	120	54	25th	32	27th	50·1	39·7	44·8	- 1·1	7	0·70	18	- 11	•	•	•	•	•	•	•	•	•	•
b, I. OF MAN. p Douglas	277	54	24, 25	40	26th	51·3	43·3	47·2	- 0·3	7	1·57	40	+ 13	2·8	- 0·2	28	0	35	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle ..	210	54	24th	27	27th	50·7	36·4	43·3	- 2·5	6	0·95	24	+ 2	1·6	—	16	3	19	42·5	-3·6	48·1	-1·2	Cockle Park.
a Tynemouth ..	71	53	23rd	34	22, 23	50·6	39·6	44·9	- 1·9	5	0·51	13	- 4	•	•	•	•	•	•	•	•	•	Tynemouth.
p Durham ..	336	54	24th	26	22nd	50·1	36·0	42·8	- 2·7	7	0·69	18	0	1·8	- 0·8	19	3	21	•	•	•	•	Durham.
a North .. p Rounton ..	249	56	24th	27	22, 27	51·6	37·3	44·2	- 0·7	6	0·59	15	- 4	•	•	•	3	23	46·8	•	•	•	Rounton.
a West Wilton ..	*605*	*51*	*23, 24*	*29*	*22nd*	*48·6*	*35·4*	*41·8*	—	*7*	*1·34*	*34*	—	•	•	•	4	24	44·6	•	49·8	•	*West Wilton.*
p Scarborough† ..	100	56	23rd	41	26, 27	53·1	43·3	48·1	+ 0·7	6	0·76	19	0	2·9	—	29	•	•	•	•	53·7	•	Scarborough.
p York	56	58	23rd	33	22nd	53·0	39·6	46·1	- 0·4	7	0·47	12	- 3	2·0	- 0·4	20	•	•	48·8	-1·7	53·0	+0·1	York.
a Spurn Head ..	26	56	23rd	43	22, 27	52·6	44·0	48·2	- 0·2	5	0·41	10	- 3	*2·4*	—	*24*	•	•	•	•	•	•	*Spurn Head.*
b, South .. a Lincoln ..	58	58	23rd	34	27th	53·0	38·9	45·7	- 0·9	6	0·44	11	- 3	•	•	•	•	•	48·1	-3·6	53·0	+0·1	Lincoln.
a Fulbeck	180	57	23rd	32	22nd	53·1	39·3	46·0	- 0·3	5	0·31	8	- 6	3·1	—	31	3	25	47·8	-1·7	53·4	0·0	Ranceby.
														3·0	—	30	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																							
p Cromer	196	58	23rd	35	27th	52·6	41·9	47·1	- 0·2	5	0·75	19	—	2·5	—	25	•	•	•	•	•	•	Cromer.
p Little Massingham ..	280	57	25th	34	22, 27	51·4	39·7	45·4	- 1·4	5	0·50	14	- 3	2·2	- 0·6	22	1	30	•	•	•	•	Lit. Massingham.
a, North .. p Yarmouth ..	13	58	23rd	39	27th	53·4	44·6	48·9	+ 0·9	4	0·83	21	+ 4	2·9	—	29	•	•	48·9	-2·2	54·4	-0·7	Yarmouth.
a Norwich ..	93	57	23rd	34	27th	53·0	41·0	46·8	+ 0·4	5	0·60	15	—	*2·3*	—	*23*	2	27	47·5	•	•	•	*Norwich.*
a Geldeston ..	37	61	23rd	35	22, 27	54·7	41·0	47·7	0·0	5	0·74	19	+ 2	2·6	- 0·5	*26*	•	•	•	•	•	•	Geldeston.
a Cambridge ..	41	59	23rd	31	22nd	54·1	38·9	46·3	- 0·8	3	0·25	6	- 7	2·4	- 0·7	24	3	25	48·5	-2·2	54·2	-0·4	Cambridge.
a Clacton-on-Sea ..	54	57	23rd	38	22nd	53·6	45·1	49·2	+ 0·3	4	0·57	14	—	3·5	—	35	0	35	50·7	-2·8	54·9	-0·4	Clacton.
b, South .. a Rothamsted ..	424	56	23rd	24	22nd	52·9	38·7	44·6	- 1·5	7	0·60	15	- 2	2·6	- 0·5	26	3	22	47·3	•	•	•	Rothamsted.
p Tottenham ..	51	58	23rd	30	22nd	54·3	42·0	48·0	+ 0·3	5	0·71	18	—	2·6	—	26	1	27	•	•	55·0	+2·5	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. a Harrogate ..	479	52	23rd	28	22nd	49·3	35·9	42·4	- 3·0	7	1·44	37	+ 18	1·8	—	18	3	23	46·2	-2·7	49·9	-0·4	Harrogate.
p Buxton	*987*	*51*	*23, 24*	*27*	*23rd*	*48·0*	*33·6*	*42·1*	*- 1·6*	*7*	*1·42*	*36*	*+ 5*	*2·1*	—	*21*	2	26	44·2	-4·4	51·6	+0·2	*Buxton.*
														3·0	—	30	2	25	47·1	-2·1	51·2	-0·9	Sheffield.
a Bawtry	65	58	23, 24	24	22nd	54·4	35·6	44·7	- 1·3	5	0·26	7	- 6	3·1	+ 0·7	31	4	21	46·8	•	51·3	•	Worksop.
a Nottingham ..	82	58	23rd	28	22nd	54·1	34·7	44·1	- 2·6	6	0·25	9	- 4	3·5	—	35	3	29	46·2	-2·6	52·1	-1·0	Nottingham.
b, East .. p Birmingham, Edgbsn.	535	55	23, 27	33	22nd	52·1	39·1	45·4	- 1·1	7	0·86	22	+ 7	3·2	—	32	3	23	46·0	-2·5	51·5	-0·1	Birmingham.
a Raunds	203	60	23rd	28	22nd	55·6	36·0	45·5	- 1·0	6	0·35	9	—	*3·1*	—	*31*	4	17	50·9	•	55·2	•	*Raunds.*
p Oxford	208	57	23-25	30	22nd	53·9	39·7	46·6	- 0·6	7	0·83	21	+ 6	3·0	+ 0·1	30	3	23	•	•	•	•	Oxford
a Cheadle	646	53	24th	31	22nd	52·0	37·1	44·3	- 0·9	7	0·98	25	+ 7	•	•	•	3	27	•	•	•	•	Cheadle.
a Shrewsbury ..	191	57	27th	26	26th	52·9	34·0	43·2	- 3·7	5	1·02	26	—	•	•	•	3	26	•	•	•	•	Shrewsbury.
c, West .. p Hereford§ ..	291	56	23, 26	32	26th	53·7	38·7	46·0	- 1·0	7	1·96	50	+ 35	*4·0*	—	*40*	4	23	47·8	•	53·5	•	*Malvern.§*
a Bath	66	58	23-25, 27	32	26th	56·3	38·3	47·0	- 1·2	6	2·50	64	+ 47	•	•	•	•	•	50·6	-2·5	55·9	-0·4	Bath.
5. ENGLAND, S.E.																							
a Marlborough ..	424	57	23rd	31	22, 26	53·9	36·1	44·7	- 0·9	6	1·31	33	+ 13	2·9	—	29	0	31	51·2	-1·8	56·2	+0·1	Worthing.
a Margate	53	57	23rd	40	22nd	54·6	45·3	49·8	+ 0·4	6	1·59	41	+ 25	2·9	+ 0·1	29	5	23	48·5	•	54·2	•	Marlborough.
a Wisley, Surrey ..	150	59	23rd	29	22nd	55·6	39·6	47·4	- 0·9	7	1·45	37	—	2·7	- 0·4	27	0	33	50·4	-0·1	55·8	+1·4	Margate.
p Salisbury (Wilton) ..	180	58	24, 25, 27	30	22nd	55·8	36·9	46·1	- 1·1	6	2·56	65	+ 45	3·6	—	36	3	29	49·2	-1·5	53·7	-0·8	Wisley.
a Tunbridge Wells ..	354	58	23rd	34	22nd	55·0	41·4	48·0	+ 0·6	7	1·14	29	+ 8	2·7	- 0·4	27	3	25	51·0	-0·3	55·2	•	Salisbury.
																							Tunbridge Wells.
a Dungeness ..	21	58	23, 24	42	22nd	56·9	46·1	51·3	+ 1·1	5	1·74	44	+ 26	•	•	•	•	•	•	•	•	•	Littlestone.
p Hastings.. ..	178	59	23rd	43	22, 26, 27	55·3	46·3	50·7	+ 0·8	6	1·57	40	+ 19	2·8	- 0·7	28	0	36	50·8	•	56·2	•	Hastings.
p Southampton ..	64	59	23rd	38	22, 26	56·6	43·4	49·8	+ 0·6	6	1·87	48	+ 27	4·1	+ 0·9	41	2	30	•	•	•	•	Southampton.
a Ventnor	59	58	23, 24, 27	44	26th	57·0	47·3	52·0	+ 0·9	7	2·10	53	+ 39	3·4	- 0·1	34	•	•	•	•	•	•	Ventnor.
LONDON. p Kew Observatory ..	18	58	23rd	33	22nd	54·1	40·8	47·3	- 0·2	6	0·93	24	+ 9	3·4	+ 0·7	34	2	26	48·2	-2·9	54·0	-0·4	Kew Obs.
a Westminster ..	*27*	*61*	*23rd*	*34*	*27th*	*56·9*	*42·0*	*49·2*	*+ 1·8*	*5*	*0·76*	*19*	*+ 4*	*3·2*	*+ 1·3*	*32*	0	32	•	•	•	•	*Westminster.*
a Greenwich ..	*155*	*60*	*23rd*	*29*	*22nd*	*56·0*	*39·9*	*47·7*	*+ 0·1*	*5*	*0·64*	*18*	*+ 2*	*3·7*	*+ 1·1*	*37*	2	23	•	•	•	•	*Greenwich.*
a Hampstead ..	*450*	*61*	*25th*	*31*	*22nd*	*54·9*	*40·6*	*47·5*	—	*6*	*0·79*	*20*	—	2·7	—	*27*	5	17	•	•	•	•	*Hampstead.*
a Camden Square ..	*110*	*61*	*23rd*	*29*	*22nd*	*56·1*	*40·4*	*48·0*	—	*7*	*0·82*	*21*	—	*2·6*	—	*26*	1	20	•	•	•	•	*Camden Square.*
7. a, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	53	24th	35	22, 27	49·4	38·6	43·8	- 2·1	6	1·06	27	+ 3	3·2	—	32	•	•	•	•	•	•	Hoylake.
p Newton Rigg	559	53	24th	30	22, 27	48·7	37·3	42·8	- 1·8	7	1·12	28	+ 6	2·5	—	26	2	29	45·6	•	50·5	•	Aspatria.
p Stonyhurst	375	53	24, 25	34	22nd	50·0	39·9	44·8	- 0·8	7	1·93	49	+ 22	2·3	- 0·2	24	3	25	45·7	-3·4	50·5	-0·6	Newton Rigg.
p Blackpool	66	54	24-27	35	22nd	52·3	40·7	46·3	- 1·2	6	0·87	22	0	2·5	0·0	25	3	25	•	•	•	•	Stonyhurst.
a Southport	37	56	25th	35	22nd	52·6	40·6	46·4	- 0·8	6	1·09	28	+ 7	2·6	0·0	26	2	28	49·1	•	53·8	•	Blackpool.
a Liverpool(Bidston) ..	188	54	24, 25, 27	34	22nd	51·4	39·3	45·2	- 2·9	7	0·71	18	- 1	*3·2*	+ 0·7	*32*	1	28	45·3	-3·3	51·8	-0·8	Southport.
a Hawarden Bridge ..	22	58	25th	34	22nd	54·3	40·3	47·1	- 1·2	7	0·83	21	+ 4	*3·2*	—	*32*	•	•	•	•	•	•	*Liverpool.*
p Manchester (Whit. Pk.)	125	56	24th	35	22, 26	52·6	41·1	46·7	+ 0·1	5	0·71	18	0	*1·9*	—	*19*	1	29	47·2	-2·5	54·9	+0·9	*Manchester (City)*
														2·6	*+ 0·8*	*26*	•	•	•	•	•	•	*„ (Whit. Park.*
b, NORTH WALES.																							
p Llandudno	71	57	24th	39	22nd	53·0	42·1	47·4	- 2·1	6	0·61	16	- 5	3·1	+ 0·6	31	•	•	•	•	•	•	Llandudno.
a Holyhead	15	56	25th	42	22nd	53·1	45·0	48·9	- 0·6	7	1·38	35	+ 12	*2·9*	—	*29*	•	•	•	•	•	•	*Holyhead.*
p Bettws-y-Coed ..	148	54	24, 25	33	22nd	51·1	39·3	45·0	- 3·6	7	2·23	57	—	3·2	—	32	•	•	46·7	-1·7	51·7	0·0	Bettws-y-Coed.
														2·8	—	28	•	•	•	•	•	•	Aberdovey

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. in Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.		Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														2·9	—	29	•	•	•	•	•	•	Aberystwyth.
a Llangammarch Wells	550	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	Llangammarch.
a Pembroke	149	55	24th	45	23rd	53·4	47·3	50·3	− 0·1	7	2·72	69	+ 46	2·6	− 0·4	26	•	•	•	•	•	•	Pembroke.
p Cardiff	202	57	24th	37	22nd	53·1	41·7	47·2	0·0	7	2·79	71	+ 45	*3·0*	—	*30*	0	31	50·1	−0·6	55·4	+1·5	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	220	57	23, 24	37	22nd	54·9	42·3	48·4	+ 0·7	7	2·02	51	+ 30	*3·5*	—	*35*	0	34	•	•	•	•	*Clifton.*
a Shaftesbury	722	57	26th	36	22nd	54·6	41·1	47·7	+ 0·4	6	1·81	46	+ 25	•	•	•	•	•	48·2	•	54·6	•	Shaftesbury.
a Arlington	613	54	25th	37	26th	51·3	41·0	46·0	− 1·4	7	2·05	52	+ 14	•	•	•	•	•	•	•	•	•	Arlington.
a Newquay	*190*	*55*	*23–26*	*40*	*25th*	*54·1*	*43·6*	*48·7*	*− 2·0*	7	*2·91*	*74*	*+ 55*	3·2	− 0·1	32	•	•	52·6	•	56·7	•	Newquay.
a Cullompton	202	58	24th	31	26th	54·1	39·1	46·4	− 1·6	7	3·33	85	+ 63	3·2	+ 0·4	32	2	28	49·6	•	•	•	Cullompton.
a Portland Bill ..	12	58	24, 26, 27	44	22nd	57·0	49·7	53·2	+ 2·2	6	1·46	37	—	*5·1*	—	*51*	•	•	•	•	•	•	*Weymouth.*
p Plymouth	116	57	23–25	37	26th	56·0	46·0	50·9	+ 0·6	7	2·41	61	+ 39	3·2	0·0	32	•	•	51·1	−1·8	55·7	•	Plymouth.
a Falmouth	167	57	24th	41	26, 27	55 0	43·9	49·3	− 1·4	7	3·24	82	+ 54	4·1	+ 0·5	41	0	36	53·8	•	57·9	•	Falmouth.
9. IRELAND, N.																							
a Malin Head	208	52	28th	36	26th	49·1	41·0	44·9	− 3·0	7	1·02	26	+ 7	*1·9*	—	*20*	•	•	•	•	•	•	*Malin Head.*
a, West .. *a* Blacksod Point ..	327	51	24th	40	27th	48·4	42·9	45·6	− 3·5	7	3·31	84	+ 54	•	•	•	•	•	•	•	•	•	
p Markree Castle ..	122	54	24th	35	24, 26	50 6	37·7	44·0	− 2·3	7	1·50	38	+ 14	1·8	− 0·8	18	2	28	50·0	•	53·9	•	Markree Castle.
a Birr Castle	175	53	24th	38	24, 27	49·9	40·7	45·2	− 0·9	7	1·14	29	+ 12	*2·5*	− *0·4*	*25*	•	•	•	•	•	•	*Birr Castle.*
b, East .. *p* Armagh	196	55	24th	37	27th	50·7	40·7	45·6	− 0·7	6	1·07	27	+ 11	2·9	+ 0·2	29	0	37	50·5	+0·3	53·7	+0·8	Armagh.
a Donaghadee	101	54	23–25	39	26, 27	51·7	41·9	46·7	− 1·1	6	0·94	24	+ 7	•	•	•	•	•	•	•	•	•	
10. IRELAND, S.																	2	28	51·3	+0·5	54·2	+1·0	Trinity Coll.
p Dublin, City	47	55	24th	41	24, 26, 27	52·0	42·9	47·3	− 1·0	6	1·79	45	+ 30	3·5	+ 0·3	35	2	25	•	•	•	•	Phœnix Park.
a, East .. *a* Kilkenny	212	55	24th	32	24th	51·4	39·7	45·4	− 1·5	7	1·61	41	+ 24	•	•	•	0	34	•	•	•	•	Dublin City.
a Waterford	20	56	24th	36	24, 26	53·1	42·4	47·6	− 0·6	7	3·15	80	+ 59	•	•	•	•	•	•	•	•	•	
a Seskin, Carrick-on-Suir	*541*	*53*	*24th*	*37*	*24, 26*	*49·9*	*39·6*	*44·6*	—	7	*2·81*	*71*	—	*3·3*	—	*33*	1	29	•	•	•	•	*Seskin.*
a Birr Castle	175	53	24th	38	24, 27	49·9	40·7	45·2	− 0·9	7	1·14	29	+ 12	2·5	− 0·4	25	•	•	•	•	•	•	Birr Castle.
a Foynes	50	55	24th	29	27th	50·7	40·0	45·2	− 3·2	7	1·91	48	+ 26	•	•	•	•	•	•	•	•	•	
a Cahir	199	54	26th	31	24th	50·3	39·9	45·0	− 3·0	7	2·43	62	—	•	•	•	•	•	•	•	•	•	
b, West .. *a* Killarney	174	57	26th	40	26th	51·6	42·7	47·0	− 1·5	7	3·00	76	+ 45	•	•	•	•	•	•	•	•	•	
a Valencia	30	55	24th	?43	25th	52·0	44 9	48·4	− 2·0	7	2·92	74	+ 43	1·8	− 1·3	18	•	•	•	•	•	•	Valencia.
a Roche's Point	32	55	24th	41	26, 27	52·6	45·0	48·7	− 1·3	7	2·67	68	+ 45	2·8	—	28	•	•	•	•	•	•	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	56	24th	45	26, 28	54·0	47·1	50·5	− 2·1	7	2·99	76	+ 56	2·8	− 0·7	28	•	•	•	•	•	•	Scilly.
a Jersey, St. Aubins ..	25	60	23rd	42	22nd	56·6	46·4	51·4	− 1·2	6	1·69	43	+ 17	4·1	+ 0·4	41	•	•	•	•	•	•	St. Heliers.
a Guernsey (Villa Carey)	180	60	23rd	44	22nd	56·6	46·4	51·4	− 1·1	7	2·33	59	+ 32	4·2	+ 0·9	42	0	37	51·7	−3·0	57·2	−0·4	Guernsey,†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, October 28th, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Above Ground.	Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Gales, force 8 or more. Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	High Winds, forces 6 and 7. Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.	Date and Hour, G.M.T.	Highest Gust with Date and Time, G.M.T.
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	m/s.		m/s. d. h. m.
1. SCOTLAND, E.														
Dyce	305	75	‡15**	—	—	—	—	24	89	55	0	— 9	25th 14h.	21 25th 11 . 2
Aberdeen*	153	105	37 / 52 †	—	—	25, 27, 28	20	54	86	8	0	SE. by S. 15	25th 13h.	22 25th 15 . 2
Edinburgh	485	39	31	—	—	—	—	45	109	14	0	ESE. 9	25th 10h.	14 25th 8 . 10
6 SCOTLAND, W.														
Eskdalemuir	825	50	22	—	—	25. 27	6	54	85	23	0	E. 12	27th 13h.	22 27th 12 . 53
Paisley	188	81	52	—	—	—	—	19	126	20	3	E. by S. 8	27th 14h.	20 27th 13 . 44
2. ENGLAND, N.E.														
Alnwick Castle	340	70	17	—	—	25th	1	34	74	47	12	SE. by S. 11	25th 10h.	19 25th 10 . 10
South Shields	72	61	12	27th	1	24, 25, 27, 28	21	59	67	20	0	SE. by S. 18	27th 12h.	23 27th 12 . 0
Spurn Head	66	40	‡	27th	2	22, 23, 25, 27, 28	43	67	53	3	0	SSW. 18	27th 11h.	23 27th 10 . 46
3. ENGLAND, E.														
Gorleston	52	42	‡	27th	4	22, 23, 25, 27, 28	45	53	59	7	0	— 18	27th 9h.	25 28th 1 . 5
Shoeburyness	103	90	‡	—	—	22, 25, 27, 28	33	70	48	12	0	SSE. 16	27th 8h.	23 27th 13 . 29
4. MIDLAND COUNTIES.														
Benson	270	84	‡	—	—	27, 28	17	81	44	26	0	SE. by E. 15	27th 6h.	22 27th 16 . 47
5. ENGLAND, S.E.														
Dover	271	40	‡	27, 28	7	25, 27, 28	33	74	31	23	0	— 20	28th 3h.	28 28th 2 . 50
Warlingham	642	33	‡	—	—	27th	1	52	91	24	0	— 12	27th 23h.	21 27th 19 . 55
Brighton	261	53	6	—	—	25, 27, 28	20	68	63	17	0	— 15	27th 7h.	28 27th 23 . 25
Kew Observatory ..	82	65	6 / 22 †	—	—	—	—	46	87	35	0	SW. by S. 9	28th 9h.	18 27th 5 . 12
South Kensington ..	123	92	30	—	—	—	—	2	103	63	0	S. by W. 6	27th 24h.	14 27th 19 . 21
7. ENGLAND, N.W.														
Carnforth	246	56	23	—	—	—	—	4	132	32	0	ENE. 8	27th 9h.	15 27th 9 . 20
Southport	80	62	48	—	—	25, 27, 28	43	97	28	0	0	W. 14	28th 9h.	23 27th 8 . 46
Holyhead*	60	40	‡	27th	4	22 to 25, 27, 28	58	90	16	0	0	E. 21	27th 7h.	29 27th 5 . 28
8. ENGLAND, S.W.														
Pendennis Castle§ ..	256	65	24	23 to 24, 26, 27	33	22 to 28	61	52	22	0	0	SW. 27	28th 10h.	41 28th 9 . 57
Plymouth	185	88	2	23 to 27	19	22 to 28	44	71	17	17	0	— 22	28th 14h.	32 28th 1 . 20
Lyme Regis	556	61	‡	25 to 27	5	22 to 28	66	39	46	12	0	— 25	27th 3h.	32 27th 3 . 55
10. IRELAND, S.														
Quilty	100	40	‡	24, 25, 27	16	22, 24 to 28	67	54	10	0	21	— 24	25th 10h.	35 25th 10 . 40
Weaver Pt.	160	30	‡	—	—	—	—	—	—	—	—	— —	— —	— —
11. ENGLISH CHANNEL.														
Scilly*	150	32 / 19	‡	22, 24, 26 to 28	28	22 to 28	48	64	28	2	0	SE. 22	26th 23h.	34 28th 23 . 39

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer. ** Above tops of trees.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory.
† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

FORTY-THIRD WEEK—October 22nd to October 28th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Accumulated Number of Day-Degrees. Deviation from Normal.	Accumulated Number of Day-Degrees. Below 42°	Accumulated Number of Day-Degrees. Deviation from Normal.	Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	54	29	82·9	77·6	80·2	0·0	28	− 2	5	− 6	5	0	0·65	17	− 13	1·6	−0·8	17	999
Eastern.																			
1. SCOTLAND, EAST ...	55	22	82·4	75·3	78·8	− 0·8	28	− 4	17	+ 3	5	+ 1	0·81	21	+ 4	2·3	−0·2	24	999
2. ENGLAND, N.E.	58	26	84·1	77·1	80·5	− 0·5	35	− 3	7	+ 1	6	+ 2	0·57	14	− 5	2·4	−0·3	24	1001
3. ENGLAND, EAST ...	61	24	84·8	78·1	81·4	0·0	39	− 5	2	− 5	5	+ 1	0·62	16	0	2·7	−0·3	27	1004
4. MIDLAND COUNTIES ...	60	24	84·9	75·7	80·2	− 0·6	42	+ 2	14	+ 5	6	+ 2	1·06	27	+ 10	2·9	+0·4	29	1001
5. ENGLAND, S.E.	59	29	86·1	78·7	82·3	+ 0·1	47	− 5	0	− 5	6	+ 2	1·63	41	+ 21	3·2	+0·1	32	1003
Western.																			
6. SCOTLAND, WEST ...	55	32	83·1	77·9	80·4	− 0·4	29	− 9	3	− 5	7	+ 3	0·70	18	− 10	1·9	−0·6	19	999
7. ENGLAND, N.W.	58	30	83·9	77·7	80·7	− 0·7	33	− 10	4	− 1	7	+ 3	1·16	29	+ 7	2·8	+0·3	28	997
8. ENGLAND, S.W.	58	31	85·4	79·4	82·3	0·0	48	− 4	0	− 4	7	+ 3	2·43	62	+ 36	3·2	+0·3	32	999
9. IRELAND, NORTH ...	55	35	83·1	77·9	80·4	− 0·7	28	− 12	3	− 3	7	+ 2	1·50	38	+ 16	2·4	−0·4	24	994
10. IRELAND, SOUTH ...	57	29	83·8	78·6	81·1	− 0·8	32	− 17	0	− 5	7	+ 3	2·29	58	+ 35	2·7	−0·3	27	994
11. ENGLISH CHANNEL ...	60	42	86·2	81·1	83·6	− 0·7	64	− 8	0	0	7	+ 2	2·34	59	+ 36	3·7	+0·2	37	1001

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 8 Weeks, September 3rd to October 28th, 1916.

0. SCOTLAND, NORTH ...	71	24	85·7	79·8	82·6	+ 0·1	430	+ 4	14	− 18	38	− 1	11·12	284	+ 52	2·2	−0·7	19	1019
Eastern.																			
1. SCOTLAND, EAST ...	74	18	86·6	78·7	82·5	− 0·1	448	− 9	48	+ 8	31	− 1	6·19	157	+ 30	3·2	−0·2	27	1011
2. ENGLAND, N.E.	74	24	87·9	80·7	84·2	+ 0·5	595	+ 57	19	+ 3	29	0	3·67	94	− 20	3·3	−0·5	29	1013
3. ENGLAND, EAST ...	71	24	88·6	81·5	85·0	+ 0·6	655	+ 40	9	− 11	28	0	3·18	81	− 29	3·2	−1·0	28	1015
4. MIDLAND COUNTIES ...	73	24	88·7	80·7	84·6	+ 0·8	643	+ 82	25	− 2	29	+ 1	4·15	106	− 9	3·1	−0·6	27	1015
5. ENGLAND, S.E.	73	27	89·4	82·6	85·8	+ 0·7	737	+ 57	2	− 11	28	+ 1	5·35	137	+ 9	3·5	−0·8	30	1015
Western.																			
6. SCOTLAND, WEST ...	72	27	87·0	80·9	83·8	+ 0·5	552	+ 47	12	− 10	38	+ 6	8·43	215	+ 6	2·7	−0·8	23	1012
7. ENGLAND, N.W.	75	25	87·9	81·9	84·8	+ 0·7	636	+ 64	6	− 5	34	+ 4	7·43	190	+ 28	2·7	−0·8	24	1013
8. ENGLAND, S.W.	72	31	88·9	83·3	86·0	+ 1·2	753	+110	0	− 9	31	0	8·03	205	+ 29	3·0	−1·1	26	1015
9. IRELAND, NORTH ...	73	34	87·7	82·2	84·9	+ 1·3	642	+113	3	− 11	41	+ 5	8·64	204	+ 41	2·1	−1·2	18	1011
10. IRELAND, SOUTH ...	77	29	88·9	83·3	86·0	+ 1·6	746	+148	0	− 12	41	+10	9·03	230	+ 76	2·4	−1·5	20	1014
11. ENGLISH CHANNEL ...	73	39	89·6	85·0	87·2	+ 0·6	871	+ 63	0	0	31	− 3	6·88	174	+ 23	4·0	−1·0	34	1015

THE YEAR.—Aggregates, &c., for the Period of 43 Weeks, January 2nd to October 28th, 1916.

0. SCOTLAND, NORTH ...	81	20	84·2	78·4	81·2	+ 0·1	1924	− 56	468	−121	204	+ 5	45·09	1144	+114	2·9	−0·6	22	1010
Eastern.																			
1. SCOTLAND, EAST ...	82	7	85·0	77·7	81·2	− 0·2	2063	−164	633	− 27	181	+16	33·78	859	+235	3·5	−0·6	26	1010
2. ENGLAND, N.E.	84	20	86·2	79·2	82·5	+ 0·3	2603	+115	398	− 93	160	+11	21·89	558	+ 49	3·8	−0·7	29	1012
3. ENGLAND, EAST ...	83	24	87·0	79·7	83·2	+ 0·4	2891	+ 16	362	−179	160	+16	21·95	556	+ 70	4·0	−0·9	31	1013
4. MIDLAND COUNTIES ...	84	21	87·2	79·1	83·0	+ 0·4	2856	+ 59	430	−130	156	+13	23·23	593	+ 52	3·7	−0·6	29	1013
5. ENGLAND, S.E.	86	15	87·6	80·2	83·7	+ 0·2	3131	+ 32	296	− 98	154	+17	24·65	627	+ 91	4·5	−0·4	35	1014
Western.																			
6. SCOTLAND, WEST ...	83	17	85·8	79·1	82·3	+ 0·2	2463	+ 55	377	− 70	186	+14	36·68	936	− 5	4·0	−0·2	30	1012
7. ENGLAND, N.W.	83	8	86·2	80·0	83·0	+ 0·3	2715	+ 76	316	− 81	167	+ 9	29·55	752	+ 51	3·9	−0·4	30	1013
8. ENGLAND, S.W.	84	17	87·2	80·5	83·6	+ 0·2	3010	+ 75	279	− 31	165	+ 9	33·46	857	+103	4·5	−0·3	35	1014
9. IRELAND, NORTH ...	81	18	85·9	79·6	82·6	+ 0·1	2558	+ 42	337	− 22	201	+13	32·59	833	+ 61	3·5	−0·4	27	1012
10. IRELAND, SOUTH ...	85	20	87·1	80·5	83·7	+ 0·4	3032	+148	244	− 27	206	+40	34·01	860	+ 66	4·1	−0·3	32	1014
11. ENGLISH CHANNEL ...	80	30	87·5	82·2	84·8	+ 0·2	3459	+ 65	85	− 24	162	− 5	26·76	676	+ 53	5·3	−0·5	41	1015
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics. South Kensington, S.W., November 2nd, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

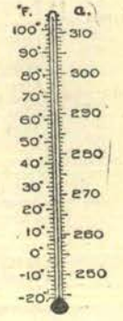
PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 44. SUNDAY, OCTOBER 29TH, TO SATURDAY, NOVEMBER 4TH, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s 0d.

I.—THE FORTY-FOURTH WEEK OF 1916.

The unsettled, wet weather continued throughout the period. The passenger steamer "Connemara" was lost in collision off Greenore during the gale on the 4th. Rain fell daily over the greater part of the Kingdom, and the aggregate amount was heavy or very heavy in all districts. In England South-East the total fall was 276 per cent. of the normal, and in England East 250 per cent. At Richmond (Kew Observatory) the total fall, 53 mm., was 379 per cent. of the normal, while at Wilton (Salisbury) the fall of 86 mm. was 430 per cent. of the normal. These two places were, relatively, the wettest in the Kingdom. At several stations more than 25 mm. fell within twenty-four hours, the largest being 33 mm. at Crathes and Killarney on the 3rd. Thunderstorms or thunder only occurred at many places in Great Britain about the middle of the week, and again very locally on Saturday. Temperature did not differ greatly from the normal, but generally in Great Britain it was somewhat above it and in Ireland a little below it. At most stations the highest point was reached early in the week and the lowest on the 3rd. The extreme readings ranged from 289a. in the English Channel, and 288·5a. in England East and South-East to 272·5a. in England North-East and Scotland West, and to 270a. in Scotland East (at Balmoral). Over the Kingdom generally the minima in the screen were well above the freezing point, but frost was experienced on the grass in most localities; at Crathes there was a grass reading as low as 267·5a. Bright sunshine was scanty in England North-West, moderate in the other districts. At several stations in the north-west the mean daily duration was less than one hour. Aurora was observed from Seskin on October 29th, and from Aberdeen on November 1st and 2nd. A solar halo and parhelia were seen from Oxford on November 4th. The temperature of the sea surface water slightly exceeded the normal along the east and south-east coasts of England, but was below it elsewhere.



WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.
		m/s		m/s		m/s		m/s		m/s		m/s		m/s		m/s
South	7	5·5	6	5·7	7	5·1	7	4·3	6	6·3	5	6·4	6	7·3	6	5·6
North	0	—	1	1·0	0	—	0	—	¼	7·9	1	5·6	1	4·3	1	5·4
West	3	3·1	4	4·3	5	2·6	5	2·7	5	7·1	6	9·0	4	7·2	5	5·8
East	4	6·7	3	2·3	2	4·0	1	3·0	2	6·1	1	7·7	2	4·4	1	4·6
Calm	0	—	0	—	0	—	1	—	0	—	0	—	0	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c. is printed on a separate sheet. *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Moderate	Moderate	Moderate	Moderate	Moderate	Unusual	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Heavy	Heavy	Heavy	Very heavy	Heavy	Very heavy	Very heavy	Heavy	Heavy	Heavy	Very heavy	Heavy
	Sunshine ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Scanty	Moderate	Moderate	Moderate	Moderate

II.—THE AUTUMN SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

AUTUMN. 9 weeks from Sept. 3rd, 1916.	Warmth ...	3, 3, 3	3, 4, 2	4, 4, 1	3, 3, 3	4, 4, 1	4, 3, 2	4, 3, 2	4, 3, 2	4, 5, 0	4, 4, 1	4, 4, 1	3, 5, 1
	Rainfall ...	2, 3, 4	4, 4, 1	3, 2, 4	2, 4, 3	3, 3, 3	3, 3, 3	3, 4, 2	4, 2, 3	4, 1, 4	4, 4, 1	4, 3, 2	3, 4, 2
	Sunshine ...	1, 3, 5	2, 5, 2	0, 6, 3	0, 4, 5	1, 3, 5	1, 4, 4	0, 3, 6	1, 2, 6	0, 4, 5	0, 4, 5	0, 3, 6	1, 3, 5

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.) and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1 a. = increment of $\frac{5}{9}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch, 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(9558 19.) Wt. 79a—736. 450. 11/16. D & S. G. 17/ 36

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.							Rainfall.				Bright Sunshine Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AN TEMPERATUR ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration	Grass Min.		Earth 1 ft.		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts	Lowest Reading.	Mean	Deviation from Average.	Mean.	Deviation from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.																							
a, Islands.. *p Baltasound*	*31*	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	*Baltasound.*
a Lerwick	54	51	2nd	43	3rd	49·9	45·3	47·6	+ 3·1	7	1·77	45	—	2·4	+ 0·3	27	•	•	•	•	•	•	Deerness.
a Stornoway	51	52	1st	36	29th	50·3	40·9	45·6	+ 1·1	7	1·34	34	0	0·8	- 1·3	9	•	•	•	•	•	•	Stornoway.
a Castlebay, Barra Isd.	*37*	*52*	*29, 3*	*45*	*29, 3-4*	*51·0*	*45·4*	*48·2*	*+ 1·3*	*7*	*1·51*	*38*	—	*1·7*	—	*19*	•	•	•	•	•	•	*Castlebay.*
b, Mainland. *a* Wick	81	51	31, 4	37	3rd	49·7	41·6	45·7	+ 1·3	4	0·83	21	+ 3	•	•	•	•	•	•	•	•	•	
p Strathpeffer	200	53	4th	31	3rd	49·6	37·3	43·5	0·0	6	0·96	24	+ 7	•	•	•	•	•	•	•	•	•	Strathpeffer.
p Glencarron	500	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	
p, Fort Augustus	68	52	29, 1	36	3rd	49·9	41·7	45·8	+ 1·8	7	2·63	67	+ 42	1·1	- 0·4	12	•	•	•	•	•	•	Fort Augustus.
p Fort William	171	51	1st	38	3rd	48·7	42·3	45·5	+ 0·7	7	3·81	97	+ 51	•		•	•	•	•	•	•	•	
1. SCOTLAND, E.																							
p Gordon Castle	101	54	1, 4	32	3rd	51·9	40·7	46·3	+ 2·0	4	0·76	19	0	2·0	—	22	3	22	44·7	-0·7	47·7	-1·3	Crathes.
a Nairn	82	53	4th	33	3rd	50·1	37·7	43·9	0·0	5	0·37	9	- 4	*2·8*	—	*31*	•	•	•	•	•	•	*Gordon Castle.*
a Aberdeen	46	52	4th	35	4th	50·6	40·6	45·6	+ 1·0	4	1·65	42	+ 25	3·6	—	40	•	•	•	•	•	•	Nairn.
a Balmoral	930	49	1st	27	3rd	46·1	35·7	40·9	0·0	5	1·78	45	+ 32	1·6	- 1·0	18	•	•	•	•	48·1	-0·4	Aberdeen.
p Crieff	432	52	2nd	33	3rd	48·7	38·3	43 5	- 0·7	7	1·91	49	+ 25	•		•	•	•	•	•	•	•	Balmoral.
														1·9	—	21	•	•	3	25	•	•	Balruddery.
a Leith	18	52	1, 4	39	3rd	50·1	41·1	45·6	- 0·3	6	1·51	38	+ 26	•	•	•	•	•	•	•	•	•	
a West Linton	769	50	1, 2	30	3rd	47·0	36·9	42·0	+ 1·0	6	2·15	55	—	*1·2*	—	*13*	4	25	•	•	•	•	*West Linton.*
p Marchmont	498	52	2nd	32	3rd	48·3	37·3	42·8	- 0·5	6	1 17	30	+ 10	1·7	- 0·5	19	2	29	•	•	•	•	Marchmont.
a Edinburgh	*441*	*51*	*1, 2*	*37*	*3rd*	*48·3*	*41·6*	*45·0*	—	*6*	*1·48*	*38*	—	2·9	—	32	0	31	•	•	•	•	Edinburgh.
6. *a* SCOTLAND, W.																							
a Poltalloch	132	51	2nd	—	—	48·4	—	—	—	7	2·69	68	+ 38	•	•	•	•	•	•	•	•	•	
p Glasgow Observatory	180	51	1st	39	3rd	48·6	42·4	45·5	+ 0·7	6	1·46	37	+ 17	2·1	+ 0·5	23	2	30	•	•	•	•	Glasgow.
p Rothesay	170	53	2nd	41	29, 2, 3	50·1	42·4	46·3	+ 0·8	7	1·15	29	+ 4	*1·9*	—	*21*	0	33	45·3	•	49·4	0·0	*Rothesay.*
a Kilmarnock	90	55	1st	38	3rd	50·3	41·4	45·9	+ 1·1	7	1·14	29	—	*1·6*	—	*18*	•	•	45·9	•	49·7	•	*Kilmarnock.*
a Colmonell	170	54	1, 2	35	3rd	50·7	41·0	45·9	+ 0·9	7	2·54	65	+ 36	•	•	•	1	30	•	•	•	•	
a Dumfries	160	53	4th	40	3rd	50·0	42·6	46·3	+ 0·8	7	1·94	49	+ 27	*1·5*	—	*16*	0	34	45·5	•	49·9	•	*Dumfries.*
Eskdalemuir	*794*	*48*	*2, 4*	*35*	*29th*	*46·7*	*37·6*	*42·3*	—	*7*	*2·72*	*69*	—	*1·1*	—	*12*	•	•	•	•	•	•	*Eskdalemuir.*
p Cally, Gatehouse	120	53	2nd	39	29, 2, 3	50·4	41·4	45·9	+ 1·1	6	1·87	47	+ 17	•		•	•	•	•	•	•	•	
b, I. OF MAN. *p* Douglas	277	54	1st	42	4th	51·6	44·0	47·8	+ 0·8	7	1·70	43	+ 16	1·8	- 0·9	19	0	37	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	53	2, 4	31	3rd	50·6	38·1	44·4	- 0·2	6	1·04	26	+ 5	2·0	—	22	4	25	42·6	-1·3	47·1	-0·7	Cockle Park.
a Tynemouth	71	53	2nd	39	3, 4	50·9	41·4	46·2	+ 0·5	6	0·59	15	- 1	•	•	•	•	•	•	•	•	•	Tynemouth.
p Durham	336	53	2nd	35	3rd	50·1	39·1	44·6	0·0	6	0·78	20	+ 3	1·9	- 0·5	20	1	29	•	•	•	•	Durham.
a North.. *p* Rounton	249	52	2nd	35	3rd	50·1	40·1	45·1	+ 1·1	7	0·82	21	+ 3	•	•	•	2	30	45·8	•	•	•	Rounton.
a West Witton	*605*	*50*	*2, 4*	*34*	*3rd*	*48·1*	*38·9*	*43·5*	—	*7*	*2·99*	*76*	—	•	•	•	2	29	44·1	•	47·9	•	*West Witton.*
p Scarborough†	100	53	31, 2	37	3rd	51·3	40·1	45·7	- 0·7	6	1·00	25	+ 7	1·9	—	20	•	•	•	•	53·1	•	Scarborough.
p York	56	54	30th	34	3rd	51·1	39·4	45·3	- 0·4	6	0·85	22	+ 8	1·2	- 0·9	13	•	•	47·6	-1·1	51·5	-0·4	York.
b, South.. *a* Spurn Head	26	52	4th	41	2, 3	50·3	42·4	46·4	- 0·8	6	0·75	19	+ 7	*2·6*	—	*28*	•	•	•	•	•	•	*Spurn Head.*
a Lincoln	58	56	30th	37	3rd	52·0	42·0	47·0	+ 1·4	7	0·80	20	+ 7	•	•	•	•	•	46·1	-1·3	51·5	-0·2	Lincoln.
a Fulbeck	180	55	30th	37	3rd	52·0	40·9	46·5	+ 1·3	7	0·92	23	+ 10	2·5	—	27	2	28	46·8	-0·3	52·1	-0·2	Rauceby.
														2·6	—	28	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																							
p Cromer	196	58	30th	38	29, 3	54·3	41·9	48·1	+ 2·1	7	0·93	24	—	2·9	—	31	•	•	•	•	•	•	Cromer.
p Little Massingham	280	?56	30th	36	3rd	51·9	40·1	46·0	+ 0·5	6	1·35	34	+ 18	2·4	- 0·1	26	0	34	•	•	•	•	Lit. Massingham
a, North.. *a* Yarmouth	13	58	30th	40	3rd	55·0	43·7	49·4	+ 2·5	6	1·16	29	+ 13	3·4	—	36	•	•	48·4	+0·6	52·7	-0·7	Yarmouth.
a Norwich	93	57	30, 4	37	3rd	53·9	42·1	48·0	+ 2·8	7	1·28	33	—	*2 9*	—	*31*	2	29	47·0	•	•	•	*Norwich.*
a Geldeston	37	60	30th	36	3rd	56·3	41·3	48·8	+ 2·0	7	1·26	32	+ 17	3·1	+ 0·4	33	•	•	•	•	•	•	Geldeston.
b, South.. *p* Cambridge	41	60	30th	35	3rd	55·0	41·9	48·5	+ 2·5	6	0·98	25	+ 12	2·2	- 0·5	23	2	29	47·9	-0·3	52·5	-0·6	Cambridge.
a Clacton-on-Sea	54	57	30th	44	3rd	54·7	46 6	50·7	+ 3·0	7	1·26	32	—	3·0	—	31	0	38	50·0	-1·2	53·7	-0·2	Clacton.
a Rothamsted	424	57	30th	35	3rd	53·4	39·7	46·6	+ 1·8	7	1·85	47	+ 30	2·8	+ 0·1	29	2	29	47·2	•	•	•	Rothamsted.
p Tottenham	51	60	30th	38	3rd	55·3	43·6	49·5	+ 2·9	6	2·24	57	—	1·8	—	19	0	33	•	•	53·4	-1·4	Tottenham.
4. MIDLAND COUNTIES.																							
a North.. *a* Harrogate	479	51	2, 4	34	3rd	49·0	38·9	44·0	- 0·5	7	1·59	40	+ 23	1·1	—	12	1	30	45·5	-1·5	48·3	-0·7	Harrogate.
p Buxton	*987*	*49*	*30th*	*35*	*3rd*	*47·0*	*39·7*	*43·4*	*+ 0·6*	*7*	*1·72*	*44*	*+ 13*	*0·5*	—	*5*	0	32	43·4	-2·4	49·2	-1·3	*Buxton.*
														1·6	—	17	0	31	46·2	-1·0	50·6	-0·5	Sheffield.
b, East.. *a* Bawtry	65	54	30th	37	2nd	51·1	40·7	45·9	+ 0·9	7	1·07	27	+ 16	1·5	- 0·7	16	3	25	45·8	•	49·9	•	Worksop.
a Nottingham	82	57	30th	33	3rd	52 3	39·3	45·8	+ 0 2	7	0·83	21	+ 8	1·7	—	18	1	30	45·5	-0·7	50 4	-1·0	Nottingham.
p Birmingham, Edgbsn.	535	54	30th	38	3rd	51·1	41·6	46·4	+ 0·9	7	1·40	36	+ 22	1·6	—	17	0	32	46·4	-0·3	50·6	-0·1	Birmingham.
a Raunds	203	59	30th	35	3rd	54·6	39·7	47·2	+ 1·9	7	1·39	35	—	*2·7*	—	*28*	4	23	49·7	•	54·1	•	*Raunds.*
p Oxford	208	58	30th	40	3rd	54·1	43·1	48·6	+ 2·3	6	1·59	40	+ 25	2·8	+ 0·2	29	0	31	•	•	•	•	Oxford
c, West.. *a* Cheadle	646	54	4th	36	3rd	48·6	39·0	43·8	- 0·7	7	1·89	48	+ 31	•	•	•	1	29	•	•	•	•	Cheadle.
p Shrewsbury	191	57	30th	33	3rd	52·4	36·3	44·4	- 1·7	7	1·04	26	—	•	•	•	2	30	•	•	•	•	Shrewsbury.
a Hereford§	291	54	30th	38	3rd	51·3	41·7	46·5	+ 0·5	7	1·83	46	+ 32	*1·9*	—	*20*	2	28	46·9	•	51·6	•	*Malvern.*§
a Bath	66	59	30th	34	2, 3	56·6	40·9	48·8	+ 1·6	6	2·43	62	+ 45	•	•	•	•	•	49·3	-1·1	53·7	-1·2	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	57	30th	32	3rd	54·0	39·6	46·8	+ 2·0	7	2·65	67	+ 47	2·9	—	30	0	34	51·1	+1·0	54·8	+0·2	Worthing.
a Margate	53	60	30th	44	29, 3	57·1	46·6	51·9	+ 3·7	5	1·40	36	+ 20	2·4	- 0·1	25	2	27	48·0	•	52·7	•	Marlborough.
a Wisley, Surrey	150	60	30th	39	3rd	56·1	43·6	49·9	+ 2 7	7	2·56	65	—	2·9	+ 0·1	30	0	38	50·3	+2·1	54·1	+1·2	Margate.
p Salisbury (Wilton)	180	59	30th	33	3rd	56·1	40 0	48·1	+ 2·2	7	3·40	86	+ 66	2·8	—	29	2	27	48·8	+0·7	52·2	-0·4	Wisley.
a Tunbridge Wells	354	59	30th	40	29, 3	56·1	44·0	50·1	+ 3·7	6	2·13	54	+ 34	•	•	•	0	31	48·3	•	•	•	Salisbury.
														2·1	- 0·7	22	2	28	50·6	+2·5	53·7	•	Tunbridge Wells.
a Dungeness	21	58	30, 4	47	29th	58·6	48·7	52·7	+ 3·6	7	1·82	46	+ 29	•	•	•	•	•	•	•	•	•	Littlestone.
p Hastings	178	60	30th	46	29th	57·0	47·9	52·5	+ 3·7	7	2·74	70	+ 50	3·4	+ 0·3	35	0	42	51·0	•	54·4	•	Hastings.
p Southampton	64	59	30th	40	3rd	56·1	45·6	50·9	+ 2·5	7	2·39	61	+ 41	3·1	+ 0·3	32	1	29	•	•	•	•	Southampton.
a Ventnor	59	60	30th	48	29th	57·7	49·1	53·4	+ 3·6	6	1·63	42	+ 28	2·6	- 0·5	27	•	•	•	•	•	•	Ventnor.
LONDON. *p* Kew Observatory	18	59	30th	36	3rd	55·4	42·8	49·1	+ 2·6	7	2·09	53	+ 39	2·8	+ 0·5	29	1	30	48·2	+0·1	52·3	-0·8	Kew Obs.
a Westminster	*27*	*61*	*30th*	*40*	*3rd*	*57·3*	*43 7*	*50·5*	*+ 3·9*	*7*	*1·87*	*47*	*+ 33*	*2·5*	*+ 0·9*	*26*	0	32	•	•	•	•	*Westminster.*
a Greenwich	*155*	*61*	*30th*	*38*	*3rd*	*57·0*	*42·1*	*49·6*	*+ 3·0*	*7*	*1·80*	*46*	*+ 32*	*3·5*	*+ 1·3*	*36*	0	31	•	•	•	•	*Greenwich.*
a Hampstead	*450*	*58*	*30th*	*39*	*3rd*	*54·3*	*42·3*	*48·3*	—	*6*	*2·70*	*69*	—	*2·4*	—	*25*	6	24	•	•	•	•	*Hampstead.*
a Camden Square	*110*	*61*	*30th*	*38*	*3rd*	*56·9*	*43·3*	*50·1*	—	*6*	*2·15*	*55*	—	*2·1*	—	*22*	0	35	•	•	•	•	*Camden Square.*
7. *a*, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	51	4th	37	3rd	48·9	40·7	44·8	- 0·2	7	1·74	44	+ 20	1·5	—	16	•	•	•	•	•	•	Hoylake.
p Newton Rigg	559	50	2, 4	37	3rd	48·4	40·3	44·4	+ 0·8	7	2·36	73	+ 51	1·3	—	14	0	35	45·6	•	49·3	•	Aspatria.
p Stonyhurst	375	52	30th	39	3rd	49·6	42·1	45·9	+ 1·2	7	2·36	60	+ 34	0·9	- 1·3	10	1	29	45·7	-1·4	49·1	-0·7	Newton Rigg.
p Blackpool	66	55	30th	37	31st	52·0	42·1	47·1	+ 0·5	7	1·34	34	+ 12	0·9	- 1·3	10	0	32	•	•	•	•	Stonyhurst.
a Southport	37	53	30th	37	3rd	51·0	42·4	46·7	+ 0·4	7	1·04	26	+ 5	1·2	- 1·1	13	0	34	48·5	•	52·5	•	Blackpool.
a Liverpool (Bidston)	188	53	30th	40	29, 3	51·0	42 7	46·9	0·0	7	0·67	17	- 1	1·1	- 1·1	12	0	32	45·2	-1·0	50·1	+1·0	Southport.
a Hawarden Bridge	22	55	30th	39	3rd	52·4	43·9	48·2	+ 0·6	7	1·10	28	+ 12	*1·6*	—	*17*	0	35	•	•	•	•	*Liverpool.*
p Manchester (Whit. Pk.)	125	54	30th	39	3rd	51·6	42·7	47·2	+ 1·5	6	1·28	33	+ 15	*0·6*	—	*6*	0	36	46·7	-0·6	53·0	+0·2	*Manchester (City)*
														1·0	*- 0·3*	*11*	•	•	•	•	•	•	" *(Whit. Park)*
b, NORTH WALES.																							
p Llandudno	71	55	30, 1	42	29, 2, 3	53·6	44·3	49·0	+ 0·5	7	1·25	32	+ 12	1·6	- 0·7	17	•	•	•	•	•	•	Llandudno.
a Holyhead	15	55	1st	45	29, 30, 3	53·7	46·7	50·2	+ 1·5	6	1·18	30	+ 7	*0·6*	—	*6*	•	•	•	•	•	•	*Holyhead.*
p Bettws-y-Coed	148	53	30th	38	2nd	51·1	40·9	46·0	- 2·0	7	3·16	80	—	0·5	—	5	•	•	46·3	+0·1	50·3	-0·3	Bettws-y-Coed.
														0·8	—	9	•	•	•	•	•	•	Aberdovey

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	Bright Sunshine. Hours per Day. Daily Mean	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														0·8	—	9	•	•	•	•	•	•	Aberystwyth.
a Llangammarch Wells	550	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	Llangammarch.
a Pembroke	149	55	30, 4	46	29, 1	54·0	47·3	50·7	+ 1·0	7	1·85	47	+ 24	1·5	- 1·2	16	•	•	•	•	•	•	Pembroke.
p Cardiff	202	57	30th	42	2, 3	53·9	44·9	49·4	+ 3·1	7	2·04	52	+ 26	*2·5*	—	*26*	0	33	48·8	+1·0	53·7	+1·0	*Cardiff.*
b, ENGLAND S.W.																							
a Clifton	229	58	30th	41	3rd	55·0	44·0	49·5	+ 2·5	7	1·76	45	+ 25	*2·2*	—	*23*	0	37	•	•	•	•	*Clifton.*
a Shaftesbury	722	56	4th	32	30th	53·4	40·9	47·2	+ 0·9	7	1·97	50	+ 29	•	•	•	•	•	48·1	•	53·4	•	Shaftesbury.
a Arlington	613	55	30, 4	40	3rd	52·9	42·0	47·5	+ 0·8	6	2·32	59	+ 23	•	•	•	•	•	•	•	•	•	Arlington.
a Newquay	*190*	*58*	*30th*	*41*	*2nd*	*55·0*	*44·0*	*49·5*	*- 0·4*	*7*	*1·90*	*48*	*+ 29*	2·2	- 0·9	23	•	•	51·6	•	55·0	•	Newquay.
a Cullompton	202	57	30th	35	2, 3	55·0	39·4	47·2	+ 0·2	7	2·59	66	+ 44	2·0	- 0·5	21	1	30	48·6	•	•	•	Cullompton.
a Portland Bill	19	58	30th	48	31st	56·0	49·3	53·0	+ 2·9	7	1·77	45	—	*2·8*	—	*29*	•	•	•	•	•	•	*Weymouth.*
p Plymouth	116	58	30th	45	31st	55·9	47·9	51·9	+ 2·5	7	2·12	54	+ 32	2·4	- 0·5	25	•	•	50·6	0·0	54·3	•	Plymouth.
a Falmouth	167	58	30th	42	2nd	55·1	45·3	50·2	+ 0·2	7	2·18	55	+ 27	3·1	- 0·2	32	0	35	51·8	•	55·9	•	Falmouth.
9. IRELAND. N.																							
a, West .. *a* Malin Head	208	51	29, 2	38	2nd	49·6	39·6	44·6	- 2·6	6	0·79	20	+ 1	*2·3*	—	*25*	•	•	•	•	•	•	*Malin Head.*
a Blacksod Point ..	327	51	2, 4	40	29, 30, 3	49·4	41·7	45·6	- 2·8	7	1·89	48	+ 18	•	•	•	•	•	•	•	•	•	•
p Markree Castle ..	122	53	3rd	33	30th	51·0	36·0	43·5	- 2·0	7	2·18	55	+ 31	1·7	- 0·7	18	4	27	47·5	•	•	•	Markree Castle.
a Birr Castle	175	52	1st	37	30th	50·4	39·9	45·2	- 0·1	7	2·32	59	+ 41	*2·3*	*- 0·4*	*25*	2	29	•	•	•	•	*Birr Castle.*
b, East .. *p* Armagh	196	52	1, 3	33	4th	50·3	36·9	43·6	- 2·0	7	1·51	38	+ 22	3·0	+ 0·5	32	0	33	47·9	- 0·1	52·9	+0·3	Armagh.
a Donaghadee	101	54	1st	38	3rd	51·4	39·6	45·5	- 1·5	6	1·18	30	+ 13	•	•	•	0	31	48·6	- 0·1	52·4	+0·4	Trinity Coll.
														3·0	- 1·0	32	3	26	•	•	•	•	Phœnix Park.
10. IRELAND, S.																	0	34	•	•	•	•	Dublin City.
a, East .. *p* Dublin, City	47	53	30, 1	40	30th	51·7	42·9	47·3	- 0·4	7	2·63	67	+ 52	•	•	•	•	•	•	•	•	•	•
a Kilkenny	212	55	1st	32	2nd	52·3	37·3	44·8	- 1·3	7	1·36	35	+ 17	•	•	•	•	•	•	•	•	•	•
a Waterford	20	57	1, 3	37	2nd	54·4	42·4	48·4	+ 1·1	7	1·96	50	+ 28	•	•	•	•	•	•	•	•	•	•
a Seskin, Carrick-on-Suir	*541*	*54*	*1st*	*38*	*29th*	*50·7*	*41·0*	*45·9*	—	*7*	*2·47*	*63*	—	2·7	—	*28*	0	33	•	•	•	•	*Seskin.*
b, West .. *a* Birr Castle	175	52	1st	37	30th	50·4	39·9	45·2	- 0·3	7	2·32	59	+ 41	2·3	- 0·4	25	2	29	•	•	•	•	Birr Castle.
a Foynes	50	53	1st	39	3rd	51·4	40·7	46·1	- 1·4	7	2·41	61	+ 39	•	•	•	•	•	•	•	•	•	•
a Cahir	198	56	1st	34	29th	51·6	36·3	44·0	- 3·3	6	1·87	47	—	•	•	•	•	•	•	•	•	•	•
a Killarney	174	57	1st	42	30, 2	53·2	43·4	48·3	+ 0·3	7	3·63	92	+ 59	•	•	•	•	•	•	•	•	•	•
a Valencia	30	54	30th	44	2, 3	52·6	45·1	48·9	- 0·6	7	2·44	62	+ 30	2·4	- 0·4	25	•	•	•	•	•	•	Valencia.
a Roche's Point	32	55	1st	43	4th	53·3	45·0	49·2	- 0·2	7	2·18	55	+ 31	3·2	—	33	•	•	•	•	•	•	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	57	30th	45	29th	54·9	47·0	51·0	- 1·0	7	1·38	35	+ 15	3·5	+ 0·3	36	•	•	•	•	•	•	Scilly.
a Jersey, St. Aubins ..	25	61	1st	47	29th	58·0	49·6	53·8	+ 2·1	7	1·94	49	+ 24	3·9	+ 0·5	40	•	•	•	•	•	•	St. Heliers.
a Guernsey (Villa Carey)	180	59	1st	47	29th	57·3	48·4	52·9	+ 1·4	7	1·73	44	+ 18	3·0	+ 0·1	31	0	41	51·5	-1·0	55·5	-0·8	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, November 4th, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Above Ground.	Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.		Date and Hour, G.M.T.		Highest Gust with Date and Time, G.M.T.		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.			m/s.	d.	h. m.
1. SCOTLAND, E. Dyce	305	75	‡15**	—	—	—	—	35	96	37	0	—	9	4th	19h.	22	3rd	18 . 41
Aberdeen*	153	105	37 † 52 †	—	—	3rd	7	63	87	11	0	SE.	14	3rd	18h.	23	3rd	18 . 29
Edinburgh	485	39	31	—	—	31, 4	20	82	61	5	0	S. by W.	15	4th	10h.	26	4th	10 . 10
6 SCOTLAND, W. Eskdalemuir	825	50	22	—	—	31, 1, 3, 4	34	55	56	23	0	SSW.	15	4th	9h.	25	4th	6 . 7
Paisley	188	81	52	—	—	3, 4	11	41	100	18	0	SW. by S.	13	4th	6h.	28	4th	6 . 10
2. ENGLAND, N.E. Alnwick Castle	340	70	17	—	—	3rd	3	46	80	39	0	SE. by S.	12	3rd	16h.	21	3rd	16 . 12
South Shields	72	61	12	—	—	29, 3	9	58	87	10	4	SSE.	15	3rd	15h.	23	3rd	15 . 16
Spurn Head	66	40	‡	—	—	29 to 31, 3	36	84	32	0	16	W.	15	30th	19h.	26	30th	19 . 11
3. ENGLAND, E. Gorleston	52	42	‡	—	—	29 to 1, 3, 4	43	79	46	0	0	—	16	30th	10h.	22	30th	10 . 29
Shoeburyness	103	90	‡	—	—	29 to 1, 3, 4	45	80	37	6	0	SW.	14	31st	2h.	24	31st	1 . 55
4. MIDLAND COUNTIES. Benson	270	84	‡	—	—	29 to 31, 3	18	95	50	5	0	SW. by S.	13	30th	12h.	22	30th	14 . 0
5. ENGLAND, S.E. Dover	271	40	‡	30th	4	29 to 1, 3, 4	67	62	21	5	9	—	18	30th	11h.	29	31st	3 . 0
Warlingham	642	33	‡	—	—	—	—	86	77	5	0	—	10	30th	11h.	26	31st	1 . 45
Brighton	281	53	6	—	—	29 to 31, 3	12	104	32	17	3	—	15	31st	4h.	25	31st	3 . 43
Kew Observatory ..	82	65	6 † 22 †	—	—	30th	1	60	86	21	0	SW.	11	30th	14h.	20	30th	11 . 35
South Kensington ..	73	92	30	—	—	—	—	11	132	25	0	SW. by S.	7	30th	15h.	15	30th	15 . 5
7. ENGLAND, N.W. Carnforth	246	56	23	—	—	—	—	37	112	19	0	SSW.	11	30th	20h.	20	30th	16 . 42
Southport	80	62	48	30, 31	11	30, 31, 3	25	92	40	0	0	SW. by W.	25	30th	18h.	36	30th	17 . 23
Holyhead*	60	40	‡	30, 3, 4	13	29 to 1, 3, 4	68	73	14	0	0	SW. by W.	23	30th	16h.	36	30th	15 . 17
8. ENGLAND, S.W. Pendennis Castle§ ..	256	65	24	29, 30, 3, 4	29	29 to 4	81	36	17	5	0	S.	26	3rd	9h.	35	3rd	9 . 20
Plymouth	185	88	2	29, 30, 3, 4	15	29 to 4	57	74	22	0	0	—	24	4th	23h.	34	4th	23 . 2
Lyme Regis	556	61	‡	3, 4	2	29 to 1, 3, 4	45	87	31	3	0	—	20	3rd	9h.	28	4th	22 . 37
10. IRELAND, S. Quilty	100	40	‡	30, 3, 4	25	30 to 1, 3, 4	45	88	10	0	0	—	22	30th	11h.	32	30th	11 . 20
Weaver Pt.	160	30	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11. ENGLISH CHANNEL. Scilly*	150	32 19	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.

† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

FORTY-FOURTH WEEK—October 29th to November 4th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Means of Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	53	31	82·8	78·3	80·6	+ 0·9	27	0	1	− 10	6	0	1·90	48	+ 15	1·4	−0·4	16	988
Eastern.																			
1. SCOTLAND, EAST ...	54	27	82·5	76·6	79·6	+ 0·4	27	− 1	10	− 5	5	0	1·41	36	+ 17	2·3	+0·1	25	990
2. ENGLAND, N.E.	56	31	83·5	77·7	80·6	0·0	33	− 1	4	− 3	6	+ 2	0·84	21	+ 4	2·0	−0·2	22	995
3. ENGLAND, EAST ...	60	35	85·4	78·7	82·1	+ 1·2	45	+ 6	0	− 8	7	+ 3	1·37	35	+ 21	2·7	0·0	28	1002
4. MIDLAND COUNTIES ...	59	33	84·2	77·5	80·8	+ 0·4	37	+ 1	5	− 5	7	+ 3	1·51	38	+ 21	1·7	−0·5	18	999
5. ENGLAND, S.E.	60	32	86·4	80·1	83·3	+ 1·4	60	+ 13	0	− 5	7	+ 3	2·28	58	+ 37	2·8	+0·1	29	1002
Western.																			
6. SCOTLAND, WEST ...	55	35	83·1	78·7	80·9	+ 0·2	29	− 5	0	− 8	7	+ 2	1·81	46	+ 13	2·0	−0·2	21	991
7. ENGLAND, N.W.	55	37	83·7	78·9	81·3	+ 0·2	35	− 3	0	− 6	7	+ 2	1·68	43	+ 20	1·1	−1·0	12	993
8. ENGLAND, S.W.	58	32	85·6	80·0	82·8	+ 0·8	53	+ 5	0	− 4	7	+ 2	2·07	53	+ 25	2·0	−0·5	21	996
9. IRELAND, NORTH ...	54	33	83·2	76·9	80·1	− 0·7	32	− 4	8	+ 1	7	+ 2	1·65	42	+ 18	2·4	0·0	25	987
10. IRELAND, SOUTH ...	57	32	84·2	78·2	81·3	− 0·4	37	− 9	2	− 4	7	+ 2	2·31	59	+ 34	2·7	+0·1	28	992
11. ENGLISH CHANNEL ...	61	45	86·7	82·1	84·4	+ 0·5	74	+ 7	0	0	7	+ 2	1·68	43	+ 19	3·7	+0·7	38	1000

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 9 Weeks, September 3rd to November 4th, 1916.

0. SCOTLAND, NORTH ...	71	24	85·3	79·6	82·4	+ 0·3	457	+ 4	15	− 28	44	− 1	13·02	332	+ 67	2·1	−0·7	19	1097
Eastern.																			
1. SCOTLAND, EAST ...	74	18	86·1	78·5	82·2	0·0	475	− 10	58	+ 3	36	− 1	7·60	193	+ 47	3·1	−0·2	27	1009
2. ENGLAND, N.E.	74	24	87·4	80·4	83·8	+ 0·4	628	+ 56	23	0	35	+ 2	4·51	115	− 16	3·2	−0·4	28	1011
3. ENGLAND, EAST ...	71	24	88·2	81·2	84·6	+ 0·6	700	+ 46	9	− 19	35	+ 3	4·55	116	− 8	3·2	−0·9	28	1013
4. MIDLAND COUNTIES ...	73	24	88·2	80·4	84·1	+ 0·7	680	+ 83	30	− 7	36	+ 4	5·66	144	+ 12	2·9	−0·7	26	1013
5. ENGLAND, S.E.	73	27	89·0	82·3	85·5	+ 0·7	797	+ 70	2	− 16	35	+ 4	7·63	195	+ 46	3·4	−0·7	30	1014
Western.																			
6. SCOTLAND, WEST ...	72	27	86.6	80·6	83·5	+ 0·5	581	+ 42	12	− 18	45	+ 8	10·24	261	+ 19	2·6	−0·7	23	1010
7. ENGLAND, N.W.	75	25	87·4	81·6	84·4	+ 0·6	671	+ 61	6	− 11	41	+ 6	9·11	233	+ 48	2·5	−0·9	22	1011
8. ENGLAND, S.W.	72	31	88·6	83·0	85·7	+ 1·2	806	+115	0	− 13	38	+ 2	10·10	258	+ 54	2·9	−1·0	25	1013
9. IRELAND, NORTH ...	73	33	87·2	81·6	84·4	+ 1·1	674	+109	11	− 10	48	+ 7	9·32	237	+ 50	2·1	−1·1	19	1009
10. IRELAND, SOUTH ...	77	29	88·3	82·7	85·4	+ 1·3	783	+139	2	− 16	48	+12	11·34	289	+110	2·4	−1·4	21	1011
11. ENGLISH CHANNEL ...	73	39	89·3	84·7	86·9	+ 0·6	945	+ 70	0	0	38	− 1	8·56	217	+ 42	4·0	−0·8	35	1013

THE YEAR.—Aggregates, &c., for the Period of 44 Weeks, January 2nd to November 4th, 1916.

0. SCOTLAND, NORTH ...	81	20	84·2	78·4	81·2	+ 0·1	1951	− 56	469	−131	210	+ 5	46·99	1192	+129	2·8	−0·6	22	1009
Eastern.																			
1. SCOTLAND, EAST ...	82	7	84·9	77·7	81·2	− 0·1	2090	−165	643	− 32	186	+16	35·19	895	+252	3·4	−0·7	26	1010
2. ENGLAND, N.E.	84	20	86·2	79·1	82·5	+ 0·4	2636	+114	402	− 96	166	+13	22·73	579	+ 53	3·8	−0·6	29	1012
3. ENGLAND, EAST ...	83	24	87·0	79·6	83·2	+ 0·4	2036	+ 22	362	−187	167	+19	23·32	591	+ 91	4·0	−0·8	31	1013
4. MIDLAND COUNTIES ...	84	21	87·1	79·0	82·9	+ 0·3	2893	+ 60	435	−135	163	+16	24·74	631	+ 73	3·7	−0·6	29	1013
5. ENGLAND, S.E.	86	15	87·5	80·2	83·7	+ 0·2	3191	+ 45	296	−103	161	+20	26 93	685	+128	4·4	−0·5	35	1013
Western.																			
6. SCOTLAND, WEST ...	83	17	85·7	79·1	82·3	+ 0·2	2492	+ 50	377	− 78	193	+16	38·49	982	+ 8	3·9	−0·3	30	1011
7. ENGLAND, N.W.	83	8	86·2	79·9	82·9	+ 0·3	2750	+ 73	316	− 87	174	+11	31·23	795	+ 71	3·8	−0·5	30	1012
8. ENGLAND, S.W.	84	17	87·1	80·5	83·5	+ 0·2	3063	+ 80	279	− 35	172	+11	35 53	910	+128	4·4	−0·4	34	1014
9. IRELAND, NORTH ...	81	18	85·8	79·5	82·6	+ 0·1	2590	+ 38	345	− 21	208	+15	33·87	866	+ 70	3·5	−0·4	27	1011
10. IRELAND, SOUTH ...	85	20	87·0	80·4	83·6	+ 0·3	3069	+139	246	− 31	213	+42	36·32	919	+100	4·1	−0·3	32	1014
11. ENGLISH CHANNEL ...	80	30	87·5	82·2	84·7	+ 0·1	3533	+ 72	85	− 24	169	− 3	28·44	719	+ 72	5·3	−0·5	41	1015
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F			inches.	mm.	mm.	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics. South Kensington, S.W., November 9th, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 45. SUNDAY, NOVEMBER 5TH, TO SATURDAY, NOVEMBER 11TH, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s 0d.

I.—THE FORTY-FIFTH WEEK OF 1916.

The first half of the week was boisterous, but the wind fell off on Wednesday and the week ended with calm weather. There was much rain in many parts of the country. The temperatures were high for the time of year though there was little sunshine. The mean temperatures from almost all stations were above the normal. The excess in England N.E. reached 2 a. Night frosts were not numerous for the time of year. The lowest temperature recorded in a Stevenson screen was 270 a. which was reached at Balmoral on the nights of the 7th and 9th. A maximum of about 288 a. was attained in all parts of the country towards the close of the week. The rainfall for the week was nearly double the normal in all the southern counties. At Salisbury 33 mm. fell on the 6th and 27 mm. on the 7th, making 60 mm. for the two consecutive days, and 83 mm. for the week. The duration of bright sunshine averaged between two and three hours in the east and south, less than two hours in the north and west, where it was decidedly scanty for the time of year. The sea temperature off the east coast, 285 a., was 1 a. in excess of the normal. The departure from the normal was small in the north and west.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.
		m/s		m/s		m/s		m/s		m/s		m/s		m/s		m/s
South	4	5·4	6	4·5	7	3·7	7	3·6	4	6·3	2	5·3	5	4·5	3	4·0
North	3	7·6	1	2·0	0	—	0	—	2	3·5	4	7·1	1	3·8	4	4·9
West	5	2·3	6	4·8	6	3·2	6	2·4	6	8·0	6	8·8	6	8·7	5	5·9
East	2	5·6	1	1·8	1	2·7	1	1·9	1	7·0	¼	2·9	1	7·5	1	4·3
Calm	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c. is printed on a separate sheet. *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Moderate	Moderate	Unusual	Unusual	Unusual	Unusual	Moderate	Unusual	Moderate	Moderate	Moderate	Moderate
	Rainfall ...	Heavy	Moderate	Moderate	Heavy	Moderate	Heavy	Moderate	Moderate	Heavy	Moderate	Moderate	Heavy
	Sunshine ...	Moderate	Scanty	Moderate	Moderate	Moderate	Moderate	Scanty	Scanty	Scanty	Scanty	Scanty	Moderate

II.—THE AUTUMN SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

AUTUMN. 10 weeks from Sept. 3rd, 1916.	Warmth ...	3, 4, 3	3, 5, 2	5, 4, 1	4, 3, 3	5, 4, 1	5, 3, 2	4, 4, 2	5, 3, 2	4, 6, 0	4, 5, 1	4, 5, 1	3, 6, 1
	Rainfall ...	3, 3, 4	4, 5, 1	3, 3, 4	3, 4, 3	3, 4, 3	4, 3, 3	3, 5, 2	4, 3, 3	5, 1, 4	4, 5, 1	4, 4, 2	4, 4, 2
	Sunshine ...	1, 4, 5	2, 5, 3	0, 7, 3	0, 5, 5	1, 4, 5	1, 5, 4	0, 3, 7	1, 2, 7	0, 4, 6	0, 4, 6	0, 3, 7	1, 4, 5

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.) and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(9609 -19.) Wt. 79a—736. 450. 11/16. D & S. G. 17/ 36.

 III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

Districts and Names of Stations reporting Temperature of Air and Rainfall.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air (In Degrees Fahrenheit): Highest.	Date.	Lowest.	Date.	Mean for the Week: Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall: No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Bright Sunshine (Hours per Day): Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Ground Temperature: Grass Min.: Ground Frosts.	Lowest Reading.	Earth 1 ft.: Mean.	Deviation from Average.	Earth 4 ft.: Mean.	Deviation from Average.	Stations reporting Sunshine and Temperature on the Grass and in the Ground.
0. SCOTLAND, N.	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
a, Islands .. *p Baltasound*	*31*	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	*Baltasound.*
a Lerwick	54	52	11th	44	10,11	49·7	45·9	47·8	+ 4·2	7	2·87	73	—	1·3	- 0·4	16	•	•	•	•	•	•	Deerness.
a Stornoway	51	56	11th	36	6th	50·6	39·6	45·1	+ 1·2	7	1·67	42	+ 8	1·4	- 0·4	17	•	•	•	•	•	•	Stornoway.
a Castlebay, Barra Isd.	*37*	*54*	*10,11*	*44*	*6,8,9*	*51·1*	*45·3*	*48·2*	*+ 1·6*	*7*	*1·50*	*38*	—	*0·5*	—	*6*	•	•	•	•	•	•	*Castlebay.*
b, Mainland. a Wick	81	57	11th	36	9th	51·3	40·9	46·1	+ 2·7	5	0·94	24	+ 7	•	•	•	•	•	•	•	•	•	• •
p Strathpeffer	200	61	11th	31	8th	50·0	39·1	44·6	+ 2·1	4	0·45	11	- 6	•	•	•	•	•	•	•	•	•	Strathpeffer.
p Glencarron	500	53	11th	35	8th	48·4	39·4	43·9	+ 1·7	7	2·68	68	+ 15	•	•	•	•	•	•	•	•	•	• •
p Fort Augustus	68	57	11th	34	8th	50·1	42·0	46·1	+ 2·9	6	1·41	36	+ 11	0·3	- 0·8	4	•	•	•	•	•	•	Fort Augustus.
p Fort William	171	55	11th	33	8th	49·1	41·9	45·5	+ 1·8	7	3·80	97	+ 51	•	•	•	•	•	•	•	•	•	• •
1. SCOTLAND, E.														1·4	—	16	3	25	43·8	+0·3	46·8	-1·4	Crathes.
p Gordon Castle	101	63	11th	35	8th	52·7	40·7	46·7	+ 3·3	5	0·63	16	- 1	*1·6*	—	*19*	•	•	•	•	•	•	*Gordon Castle.*
a Nairn	82	59	11th	29	8,9	50·1	37·7	43·9	+ 1·1	6	0·57	14	+ 2	1·2	—	14	•	•	•	•	•	•	Nairn.
a Aberdeen	46	59	11th	37	10th	52·1	40·9	46·5	+ 2·9	4	0·72	18	+ 1	1·8	- 0·4	21	•	•	•	•	47·3	0·0	Aberdeen.
a Balmoral	930	58	11th	27	8,10	46·9	34·9	40·9	+ 0·9	6	0·56	14	- 9	•	•	•	3	25	•	•	•	•	Balmoral.
p Crieff	432	59	11th	31	8th	50·6	38·1	44·4	+ 1·4	6	0·69	18	- 7	1·7	—	20	•	•	•	•	•	•	Balruddery.
a Leith	18	59	11th	37	8,9	50·7	41·9	46·3	+ 1·5	4	0·67	17	+ 6	•	•	•	•	•	•	•	•	•	• •
a West Linton	769	55	10,11	33	7th	48·9	39·0	44 0	+ 4·1	7	0·71	18	—	*0·3*	—	*3*	1	28	•	•	•	•	*West Linton.*
p Marchmont	498	56	11th	35	8th	49 0	39·9	44·5	+ 2 2	6	1 06	27	+ 8	0·6	- 1·4	7	0	31	•	•	•	•	Marchmont.
a Edinburgh	*441*	*58*	*11th*	*37*	*7,8*	*50·1*	*42·4*	*46·3*	—	*5*	*0·58*	*15*	—	1·4	—	16	0	32	•	•	•	•	Edinburgh.
6. a. SCOTLAND, W.																							
a Poltalloch	132	56	10th	—	—	49·4	—	—	—	7	2·32	59	+ 28	•	•	•	•	•	•	•	•	•	• •
p Glasgow Observatory	180	57	10,11	35	8th	50·9	43·4	47·2	+ 3·2	6	0·91	23	+ 2	0·8	- 0·5	9	2	25	•	•	•	•	Glasgow.
p Rothesay	170	58	11th	36	8th	49·7	42·4	46·1	+ 1·4	7	1·80	46	+ 20	*0·8*	—	*9*	1	29	45·3	•	48·5	+0·2	*Rothesay.*
a Kilmarnock	90	56	11th	32	8th	50·9	41·6	46·3	+ 2·7	7	0·94	24	—	*0·6*	—	*7*	•	•	45·8	•	48·9	•	*Kilmarnock.*
a Colmonell	170	57	10,11	34	8th	51·9	42·0	47·0	+ 3·3	7	1·50	38	+ 8	•	•	•	1	30	•	•	•	•	• •
a Dumfries	160	56	11th	38	8th	51·3	42·1	46·7	+ 2·6	6	0·98	25	+ 2	*0·5*	—	*6*	0	31	45·6	•	48·8	•	*Dumfries.*
Eskdalemuir	*794*	*55*	*11th*	*35*	*8,9*	*49·0*	*38·6*	*43·8*	—	*6*	*1·62*	*41*	—	*0·7*	—	*8*	•	•	•	•	•	•	*Eskdalemuir.*
p Cally, Gatehouse	120	54	10,11	38	8th	50·7	41·7	46·2	+ 2·3	6	2 32	59	+ 28	•	•	•	•	•	•	•	•	•	• •
b. I. OF MAN. p Douglas	277	57	11th	42	6,7	52·4	44·7	48·6	+ 2·4	6	0·70	18	- 9	1·8	- 0·6	20	0	37	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
a North .. a Alnwick Castle	210	58	10,11	35	7th	53·3	41·7	47·5	+ 3·5	4	1·01	26	+ 6	1·4	—	16	0	32	44·1	+2·2	46·3	-0·1	Cockle Park.
a Tynemouth	71	59	11th	40	7th	52·4	43·6	48·0	+ 3·3	2	0·39	10	- 4	•	•	•	•	•	•	•	•	•	Tynemouth.
p Durham	336	57	11th	37	7th	52·4	42·1	47·3	+ 3·7	4	0·51	13	- 2	1·9	- 0·2	21	0	31	•	•	•	•	Durham.
p Rounton	249	58	11th	38	7th	53·1	43·3	48·2	+ 4·8	4	0·50	13	- 3	•	•	•	0	32	45·7	•	•	•	Rounton.
a West Witton	*605*	*55*	*10th*	*39*	*7,8*	*50·4*	*41·6*	*46·0*	—	*7*	*1·22*	*31*	—	•	•	•	0	32	44·2	•	46·5	•	*West Witton.*
p Scarborough†	100	57	10th	40	7th	53·9	43·0	48·5	+ 3·1	3	0·46	12	- 4	2·0	—	22	•	•	•	•	53·0	•	Scarborough.
p York	56	59	11th	39	7th	53·1	43·7	48·4	+ 4·0	5	0 45	11	- 2	1·2	- 0·5	13	•	•	47·1	+0·2	50 3	-0·4	York.
b, South .. a Spurn Head	26	55	11th	43	9,10	50·4	44·3	47·4	+ 1·4	3	0·51	13	+ 2	*1·7*	—	*19*	•	•	•	•	•	•	*Spurn Head.*
a Lincoln	58	60	11th	42	7,9,10	53·2	44·0	48·6	+ 4·4	4	0·62	16	+ 4	•	•	•	•	•	46·1	+0·7	50·4	-0·1	Lincoln.
a Fulbeck	180	60	11th	40	7,10	53·0	42·7	47·9	+ 3 9	4	0·53	14	+ 2	2·2	—	24	0	32	47·2	+1·9	50·7	-0·5	Rauceby.
														2·2	—	24	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																							
a, North .. p Cromer	196	62	11th	38	7th	53·4	40·7	47·1	+ 3·3	3	0·48	12	—	3·1	—	34	•	•	•	•	•	•	Cromer.
p Little Massingham	280	58	11th	36	9th	52·4	41·0	46·7	+ 1·4	3	0·65	16	+ 1	2·1	- 0·1	23	0	35	•	•	•	•	Lit. Massingham.
a Yarmouth	13	62	11th	41	10th	53·6	43·6	48·6	+ 3·1	4	0·45	11	- 4	3·2	—	36	•	•	48·4	+3·3	51·9	+0·2	Yarmouth.
a Norwich	93	60	11th	39	10th	53·9	43·1	48·1	+ 3·9	4	0·62	16	—	*2 8*	—	*31*	0	31	46·9	•	•	•	*Norwich.*
a Geldeston	37	63	11th	37	10th	54·6	41·9	48·3	+ 2·9	5	0·54	14	0	3 0	+ 0·6	33	•	•	•	•	•	•	Geldeston.
b, South .. p Cambridge	41	60	11th	37	10th	54·6	42·6	48·6	+ 3·8	4	0·69	18	+ 6	2·4	0·0	26	3	28	48·0	+2·0	51·6	+0·1	Cambridge.
a Clacton-on-Sea	54	56	11th	40	9,10	52·6	44·4	48·5	+ 2·3	5	1·12	28	—	2·3	—	25	0	37	49·8	+0·5	53·1	+0·7	Clacton.
a Rothamsted	424	58	11th	33	10th	52·4	41·0	46·7	+ 2·7	4	1·61	41	+ 24	2·7	+ 0·3	30	1	28	47·0	•	•	•	Rothamsted.
p Tottenham	51	58	11th	38	10th	55·0	44·3	49·7	+ 4·3	4	1·52	39	—	2·5	—	27	0	34	•	•	52·3	-0·8	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. a Harrogate	479	56	10th	38	7th	51·4	41·4	46·4	+ 2·9	5	0·67	17	0	1·4	—	16	0	31	45·5	+0·1	47·4	-0·3	Harrogate.
p Buxton	*987*	*56*	*11th*	*37*	*7th*	*48·4*	*40·6*	*44·5*	*+ 2·8*	*5*	*2·05*	*52*	*+ 22*	*1·9*	—	*21*	0	34	43·4	-0·2	46·1	-3·3	*Buxton.*
														1·8	—	20	0	36	46·1	+0·7	49·6	-0·4	Sheffield.
b, East .. a Bawtry	65	62	11th	40	7th	54·0	43·3	48·7	+ 4·4	5	0·49	12	+ 1	1·8	- 0·1	20	0	31	46·2	•	48 9	•	Worksop.
a Nottingham	82	60	11th	37	10th	53·3	41·3	47·3	+ 2 6	4	0 52	13	+ 1	2·3	—	26	0	34	46·0	+1·7	49 2	-0·5	Nottingham.
p Birmingham, Edgbsn.	535	59	11th	40	7,9	52·0	42·7	47·4	+ 3·9	4	1·07	27	+ 13	2·3	—	26	0	34	46·4	+1·0	50·0	+0·1	Birmingham.
a Raunds	203	58	11th	35	10th	53·4	39·6	46·5	+ 2·5	4	0·77	20	—	*2·4*	—	*26*	3	25	48·6	•	53·3	•	*Raunds.*
p Oxford	208	57	11th	38	10th	53·6	43·6	48 6	+ 3·6	4	0·88	22	+ 8	2·7	+ 0·4	30	1	28	•	•	•	•	Oxford
c. West .. a Cheadle	646	59	11th	37	7th	51·0	41·7	46·4	+ 2·9	4	0·74	19	+ 2	•	•	•	2	28	•	•	•	•	Cheadle.
p Shrewsbury	191	60	11th	35	6th	54·3	39·7	47·0	+ 2·0	4	0·30	8	—	•	•	•	0	34	•	•	•	•	Shrewsbury.
a Hereford§	291	62	11th	39	10th	53·0	41·0	47·0	+ 2·3	6	1·05	27	+ 13	*2·4*	—	*26*	2	28	46·3	•	50·1	•	*Malvern.§*
a Bath	66	58	11th	38	10th	55·0	42·7	48·9	+ 2·9	4	1·32	34	+ 16	•	•	•	•	•	48·8	+0·5	52·5	-0·9	Bath.
5. ENGLAND, S.E.														2·7	—	29	2	29	50·3	+3·1	53·9	+0·9	Worthing.
a Marlborough	424	56	11th	33	10th	53·0	38·9	46·5	+ 2·8	3	1·30	33	+ 13	2·3	+ 0·1	25	3	27	47·7	•	51·6	•	Marlborough.
a Margate	53	57	11th	39	9th	54·1	45·7	49·9	+ 2·9	3	0·83	21	+ 6	2·8	+ 0·3	31	0	35	50·0	+3·5	53·1	+1·9	Margate.
a Wisley, Surrey	150	56	7th	39	9,10	53·3	43·4	48·4	+ 2 3	3	1·94	49	—	2·4	—	26	1	27	48·5	+2·5	51·4	+0·1	Wisley.
p Salisbury (Wilton)	180	57	5,11	33	9th	53·7	42·0	47·9	+ 3·1	4	3·27	83	+ 63	•	•	•	1	27	47·5	•	•	•	Salisbury.
a Tunbridge Wells	354	54	5,8,11	36	9th	53·6	42·9	48·3	+ 3·2	3	1·77	45	+ 25	2·2	- 0·3	24	2	28	50·0	+4·6	52·8	•	Tunbridge Wells.
a Dungeness	21	56	5th	39	10th	54·3	45·9	50·1	+ 2·3	3	1 30	33	+ 17	•	•	•	•	•	•	•	•	•	Littlestone.
p Hastings	178	57	5th	38	9th	54·6	44·6	49·6	+ 2·1	3	0·91	23	+ 4	3·0	+ 0·2	32	0	31	49·8	•	53·7	•	Hastings.
p Southampton	64	58	11th	39	9,10	55·1	45·0	50·1	+ 3·0	4	2·43	62	+ 42	2·9	+ 0·4	32	2	26	•	•	•	•	Southampton.
a Ventnor	59	56	7,10	43	9th	54·7	47·6	51·2	+ 2·3	5	0·97	25	+ 9	2·1	- 0·7	23	•	•	•	•	•	•	Ventnor.
LONDON. p Kew Observatory	18	57	5,7,11	39	9th	54·0	44·6	49·3	+ 3·9	3	0·95	24	+ 10	2 8	+ 0·8	31	1	28	47·8	+1·7	51·4	-0·3	Kew Obs.
a Westminster	*27*	*58*	*5,11*	*37*	*10th*	*55·4*	*43 2*	*49·3*	*+ 3 8*	*3*	*1·13*	*29*	*+ 15*	*2·4*	*+ 1·2*	*26*	1	30	•	•	•	•	*Westminster.*
a Greenwich	*155*	*58*	*7,11*	*36*	*10th*	*54·4*	*43·0*	*48·7*	*+ 3 3*	*3*	*1·41*	*36*	*+ 22*	*2·9*	*+ 1·0*	*32*	1	29	•	•	•	•	*Greenwich.*
a Hampstead	*450*	*56*	*11th*	*36*	*9th*	*52·1*	*42·3*	*47 2*	—	*3*	*1 74*	*44*	—	*2·5*	—	*27*	3	20	•	•	•	•	*Hampstead.*
a Camden Square	*110*	*58*	*7,11*	*37*	*10th*	*54·6*	*43·1*	*48·9*	—	*3*	*1·60*	*41*	—	*2·4*	—	*26*	0	33	•	•	•	•	*Camden Square.*
7. a, ENGLAND, N.W.														1·3	—	14	•	•	•	•	•	•	Hoylake.
p Aspatria (Mealsgate)	487	54	10,11	37	8th	50·1	42·7	46·4	+ 2·4	6	0·62	16	- 9	0·2	—	2	0	37	45·8	•	48·5	•	Aspatria.
p Newton Rigg	559	57	11th	37	8th	50·4	42·6	46·5	+ 4 0	6	1·48	38	+ 17	0 7	- 1·3	8	2	30	45·6	+0·2	48·0	-0·6	Newton Rigg.
p Stonyhurst	375	55	11th	40	7th	51·4	43·7	47·6	+ 3 8	7	1·42	36	+ 10	1·0	- 0 9	11	0	38	•	•	•	•	Stonyhurst.
p Blackpool	66	55	10,11	45	10,11	52 3	46·4	49·4	+ 3·6	6	0 72	18	- 4	0·7	- 1·3	8	0	38	48·2	•	51·6	•	Blackpool.
a Southport	37	56	10th	41	7th	52 0	45 0	48·5	+ 3·0	5	0·90	23	+ 2	1·0	- 0·8	11	0	36	45·9	+1·7	49·0	-0·1	Southport.
a Liverpool (Eidston)	188	57	10,11	40	7th	52·3	43 1	47·7	+ 2·4	6	0·75	19	+ 2	*1·3*	—	*14*	0	35	•	•	•	•	*Liverpool.*
a Hawarden Bridge	22	59	10th	42	7th	54·7	44·0	49·4	+ 2·9	5	0 54	14	0	*0·5*	—	*6*	0	37	46·7	+1·7	51·5	+0·1	*Manchester (City)*
p Manchester (Whit. Pk.)	125	59	11th	41	7th	53·0	44·6	48·8	+ 3·8	6	1·18	30	+ 13	1·1	+ 0·1	12	•	•	•	•	•	•	" *(Whit. Park)*
b. NORTH WALES.																							
p Llandudno	71	61	10,11	43	7th	54·6	46·7	50·7	+ 3·2	5	0·68	17	- 2	1·3	- 0·8	14	•	•	•	•	•	•	Llandudno.
a Holyhead	15	56	11th	5	7,8	53·0	46·6	49 8	+ 2·0	5	0·65	16	- 8	*2·1*	—	23	•	•	•	•	•	•	*Holyhead.*
p Bettws-y-Coed	148	56	11th	41	7th	51·1	44 1	47·6	+ 0·2	6	2 00	51	—	1·1	—	12	•	•	46·7	+2·2	49·6	+0·1	Bettws-y-Coed.
														1·0	—	11	•	•	•	•	•	•	Aberdovey

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.							Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date,	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
														0·9		10							
8. a, SOUTH WALES														*	*	*	*	*	*	*	*	*	
a Llangammarch Wells	550	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	Aberystwyth.
a Pembroke	149	54	6, 7, 10	46	7, 8, 10	53·1	47·1	50·1	+ 1·2	6	0·99	25	+ 2	1·9	- 0·5	21	*	*	*	*	*	*	Llangammarch.
p Cardiff	202	54	5, 10, 11	39	9th	52·6	43·7	48·2	+ 2·9	6	1·22	31	+ 6	*1·4*	—	*15*	0	33	47·9	+2·4	52·5	+1·2	Pembroke.
																							Cardiff.
b, ENGLAND, S.W.																							
a Clifton	229	55	5, 10, 11	42	10th	53·4	44·1	48·8	+ 2·8	4	1·00	25	+ 5	*1·1*	—	*12*	0	38	*	*	*	*	*Clifton.*
a Shaftesbury	723	54	5th	38	9th	51·6	41·6	46·6	+ 1·6	6	2·11	54	+ 34	*	*	*	*	*	47·4	*	51·6	*	Shaftesbury.
a Arlington	613	53	10th	40	9th	51·3	41·9	46·6	+ 1·0	7	2·79	71	+ 36	*	*	*	*	*	*	*	*	*	Arlington.
a *Newquay*	*190*	*56*	*7th*	*42*	*5th*	*53·4*	*44·4*	*48·9*	*- 0·1*	*7*	*1·96*	*50*	*+ 31*	1·4	- 1·4	15	*	*	51·0	*	53·7	*	Newquay.
a Cullompton	202	55	5, 10, 11	35	9th	53·6	43·1	48·4	+ 2·4	6	1·84	47	+ 26	1·6	- 0·6	17	0	31	48·4	*	*	*	Cullompton.
a Portland Bill	19	57	7th	47	10th	54·1	48·6	51·4	+ 2·4	5	1·35	34	—	*2·0*	—	*22*	*	*	*	*	*	*	*Weymouth.*
p Plymouth	116	57	5, 7	42	9th	54·9	46·3	50·6	+ 2·2	6	2·39	61	+ 39	2·0	- 0·6	22	*	*	49·7	+0·4	53·2	*	Plymouth.
a Falmouth	167	57	10th	41	9th	53·6	44·6	49·1	- 0·1	6	3·43	87	+ 59	1·9	- 1·0	20	0	37	50·9	*	54·5	*	Falmouth.
9. IRELAND. N.																							
a Malin Head	208	56	10, 11	38	7, 8	50·3	41·4	45·9	- 0·4	7	1·69	43	+ 24	*0·1*	—	*1*	*	*	*	*	*	*	*Malin Head.*
a, West .. a Blacksod Point ..	327	54	10, 11	39	7th	49·7	43·0	46·4	- 1·1	7	0·91	23	- 7	*	*	*	*	*	*	*	*	*	*
p Markree Castle ..	122	57	10, 11	37	6, 7	51·1	41·6	46·4	+ 1·9	7	1·64	42	+ 17	1·3	- 0·8	15	0	35	46·9	*	50·9	*	Markree Castle.
a Birr Castle	175	57	10, 11	39	8th	50·7	41·9	46·3	+ 1·7	5	0·63	16	- 3	*1·5*	*- 0·9*	*17*	0	34	*	*	*	*	*Birr Castle.*
b, East .. p Armagh	196	57	10th	38	6, 7	49·9	42·1	46·0	+ 1·4	6	0·67	17	0	1·4	- 0·8	16	0	35	47·1	+1·1	50·6	+0·2	Armagh.
a Donaghadee	101	58	10th	38	7th	51·1	42·0	46·6	+ 0·6	3	0·75	19	+ 1	*	*	*	0	36	48·0	+1·1	50·9	+0·2	Trinity Coll.
														2·3	- 0·4	26	0	36	*	*	*	*	Phœnix Park.
10. IRELAND. S.														*	*	*	0	35	*	*	*	*	Dublin City.
p Dublin, City	47	60	10th	41	6, 8, 9	52·7	44·1	48·4	+ 1·6	3	0·27	7	- 10	*	*	*	*	*	*	*	*	*	*
a. East .. a Kilkenny	212	60	10th	36	8th	52·0	41·4	46·7	+ 1·7	4	0·37	9	- 10	*	*	*	*	*	*	*	*	*	*
a Waterford	20	57	10th	39	8th	53·0	43·4	48·2	+ 1·7	4	0·92	23	0	*	*	*	*	*	*	*	*	*	*
a *Seskin, Carrick-on-Suir*	*541*	*64*	*10th*	*37*	*9th*	*51·9*	*41·1*	*46·5*	—	*5*	*0·87*	*22*	—	*2·5*	—	*28*	0	35	*	*	*	*	*Seskin.*
a Birr Castle	175	57	10, 11	39	8th	50·7	41·9	46·3	+ 1·7	5	0·63	16	- 3	1·5	- 0·9	17	0	34	*	*	*	*	Birr Castle.
a Foynes	50	59	10, 11	40	7th	52·6	43·3	48·0	+ 1·5	6	1·32	31	+ 8	*	*	*	*	*	*	*	*	*	*
b, West .. a Cahir	199	62	10th	38	8th	51·4	41·6	46·5	+ 0·2	5	0·76	19	—	*	*	*	*	*	*	*	*	*	*
a Killarney	174	60	11th	40	6, 9	53·1	43·1	48·1	+ 1·2	6	1·65	42	+ 8	*	*	*	*	*	*	*	*	*	*
a Valencia	30	56	9-11	42	7th	52·9	45·3	49·1	+ 0·3	7	1·31	33	0	0·9	- 1·6	10	*	*	*	*	*	*	Valencia.
a Roche's Point	32	58	10th	40	7th	52·3	43·3	47·8	- 0·6	7	1·42	36	+ 11	1·2	—	13	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	55	7, 10	44	9, 10	53·6	46·0	49·8	- 1·2	7	1·77	45	+ 25	2·0	- 0·9	22	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	59	7th	44	10th	55·1	47·6	51·4	+ 1·1	7	1·50	38	+ 14	2·3	- 0·7	24	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	58	7th	46	9th	51·4	47·9	51·2	+ 0·8	7	1·49	38	+ 12	2·0	- 0·5	22	0	38	50·6	-0·2	54·2	-0·6	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, November 11th, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Height. Above Ground.	Height. Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Gales, force 8 or more. Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	High Winds, forces 6 and 7. Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.	Date and Hour, G.M.T.	Highest Gust with Date and Time, G.M.T.
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	m/s.		m/s. d. h. m.
1. SCOTLAND, E.														
Dyce	305	75	‡15**	—	—	—	—	19	66	49	34	— 8	6th 21h.	20 7th 1 . 30
Aberdeen*	153	105 / 37	†	—	—	—	—	39	78	51	0	SSW. 12	6th 21h.	21 6th 20 . 35
Edinburgh	485	39	31	—	—	6, 11	21	58	85	4	0	SW. by S. 17	6th 19h.	27 6th 15 . 23
6 SCOTLAND, W.														
Eskdalemuir	825	50	22	6, 11	5	6, 11	23	70	53	17	0	SW. by W. 19	6th 18h.	26 6th 18 . 20
Paisley	188	81	52	—	—	—	—	39	107	22	0	SW. by W. 10	6th 16h.	25 6th 18 . 48
2. ENGLAND, N.E.														
Alnwick Castle	340	70	17	—	—	—	—	51	86	31	0	SW. by W. 11	11th 11h.	19 11th 10 . 47
South Shields	72	61	12	—	—	5, 7	5	84	76	3	0	SSE. 13	7th 7h.	19 11th 14 . 22
Spurn Head	66	40	‡	5th	2	5, 7	12	88	46	0	20	SW. by S. 18	5th 15h.	27 5th 15 . 49
3. ENGLAND, E.														
Gorleston	52	42	‡	5, 7	13	5, 7	21	40	80	0	14	— 21	5th 15h.	32 5th 15 . 17
Shoeburyness	103	90	‡	5th	11	5, 7	19	76	62	0	0	S. 24	5th 13h.	31 5th 12 . 25
4. MIDLAND COUNTIES.														
Benson	270	84	‡	—	—	5, 7	19	48	94	7	0	SSE. 17	5th 10h.	26 5th 10 . 10
5. ENGLAND, S.E.														
Dover	271	40	‡	5, 7	13	5 to 8	38	58	53	6	0	— 23	5th 16h.	35 5th 15 . 13
Warlingham	642	33	‡	—	—	5, 7	10	46	110	2	0	— 15	5th 10h.	31 5th 10 . 25
Brighton	261	53	6	5th	4	5, 7, 8	24	56	78	6	0	— 19	5th 12h.	33 5th 12 . 33
Kew Observatory ..	82	65 / 6 / 22	†	—	—	5th	6	36	115	11	0	S. by W. 13	5th 13h.	26 5th 13 . 28
South Kensington ..	123	92	30	—	—	—	—	17	63	4	84‖	S. 10	5th 15h.	21 5th 13 . 49
7. ENGLAND, N.W.														
Carnforth	246	56	23	—	—	—	—	50	104	14	0	N. 9	6th 10h.	17 6th 10 . 25
Southport	80	62	48	6th	3	5 to 9, 11	59	78	28	0	0	WSW. 18	6th 8h.	25 6th 2 . 30
Holyhead*	60	40	‡	6, 9	2	5 to 11	71	92	3	0	0	W. by S. 17	6th 6h.	24 9th 6 . 45
8. ENGLAND, S.W.														
Pendennis Castle§ ..	256	65	24	5 to 7	8	5 to 7	35	71	33	21	0	S. by W. 25	5th 1h.	31 5th 0 . 39
Plymouth	185	88	2	5 to 7	12	5 to 7	8	68	61	19	0	— 26	5th 1h.	36 5th 1 . 54
Lyme Regis	556	61	‡	—	—	5 to 7	19	84	29	35	1	— 21	5th 5h.	27 7th 12 . 30
10. IRELAND, S.														
Quilty	100	40	‡	—	—	5, 6, 8, 9, 11	67	73	2	0	26	— 17	5th 5h.	26 5th 24 . 10
Weaver Pt.	160	30	‡	5th	3	5, 6	10	76	74	5	0	— 18	5th 8h.	26 5th 5 . 38
11. ENGLISH CHANNEL.														
Scilly*	150	32 / 19	‡	5th	10	5 to 9	60	48	30	20	0	NW. by W. 21	5th 12h.	29 5th 12 . 21

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

** Above tops of trees.

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory.

† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof. ‖ The Anemograph at S. Kensington was dismounted on November 9th.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

FORTY-FIFTH WEEK—November 5th to November 11th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
			Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	61	31	82·9	78·2	80·6	+ 1·2	28	+ 4	2	− 10	6	+ 1	1·97	50	+ 18	1·0	−0·4	12	988
Eastern.																			
1. SCOTLAND, EAST ...	63	27	83·1	76·9	80·1	+ 1·1	31	+ 7	8	− 9	6	+ 2	0·70	18	− 1	1·4	−0·5	16	990
2. ENGLAND, N.E.	60	35	84·6	79·2	81·9	+ 1·9	42	+ 13	0	− 10	4	0	0·55	14	− 1	1·8	−0·1	20	995
3. ENGLAND, EAST ...	63	33	84·9	78·8	81·9	+ 1·6	42	+ 9	0	− 11	4	0	0·85	22	+ 9	2·7	+0·2	29	1001
4. MIDLAND COUNTIES ...	62	35	84·7	78·4	81·6	+ 1·8	39	+ 8	1	− 12	4	0	0·78	20	+ 4	2·1	+0·1	23	999
5. ENGLAND, S.E.	58	33	85·2	79·8	82·5	+ 1·2	50	+ 9	0	− 7	3	− 1	1·57	40	+ 20	2·6	+0·3	28	1002
Western.																			
6. SCOTLAND, WEST ...	58	32	83·6	78·9	81·3	+ 1·1	34	+ 4	0	− 8	7	+ 2	1·43	37	+ 3	1·3	−0·4	15	992
7. ENGLAND, N.W.	61	37	84·3	79·9	82·1	+ 1·5	45	+ 12	0	− 7	6	+ 1	1·01	26	+ 4	0·9	−0·8	10	996
8. ENGLAND, S.W.	57	35	84·7	80·0	82·4	+ 0·8	48	+ 8	0	− 5	6	+ 1	1·90	48	+ 21	1·6	−0·6	18	1000
9. IRELAND, NORTH ...	58	37	83·3	78·6	80·9	+ 0·5	29	− 3	0	− 8	6	+ 1	1·05	27	+ 3	1·4	−0·8	15	993
10. IRELAND, SOUTH ...	62	36	84·3	79·1	81·7	+ 0·5	40	− 1	0	− 7	5	0	0·95	24	− 2	1·5	−0·9	16	1000
11. ENGLISH CHANNEL ...	59	44	85·4	81·4	83·4	0·0	62	0	0	0	7	+ 2	1·59	40	+ 15	2·1	−0·6	23	1003

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 10 Weeks, September 3rd to November 11th, 1916.

0. SCOTLAND, NORTH ...	71	24	85·1	79·5	82·2	+ 0·3	485	+ 8	17	− 38	50	0	15·11	385	+ 88	2·0	−0·7	19	1096
Eastern.																			
1. SCOTLAND, EAST ...	74	18	85·8	78·3	82·0	+ 0·1	506	− 3	66	− 6	42	+ 1	8·30	211	+ 46	2·9	−0·2	26	1007
2. ENGLAND, N.E.	74	24	87·1	80·2	83·6	+ 0·6	670	+ 69	23	− 10	39	+ 2	5·06	129	− 17	3·0	−0·5	27	1010
3. ENGLAND, EAST ...	71	24	87·9	81·0	84·4	+ 0·7	742	+ 55	9	− 30	39	+ 3	5·40	138	+ 1	3·1	−0·8	28	1012
4. MIDLAND COUNTIES ...	73	24	87·8	80·2	83·9	+ 0·9	719	+ 91	31	− 19	40	+ 4	6·44	164	+ 16	2·9	−0·5	25	1011
5. ENGLAND, S.E.	73	27	88·7	82·1	85·2	+ 0·8	847	+ 79	2	− 23	38	+ 3	9·20	235	+ 66	3·3	−0·6	30	1013
Western.																			
6. SCOTLAND WEST ...	72	27	86·3	80·5	83·3	+ 0·6	615	+ 46	12	− 26	52	+10	11·67	298	+ 22	2·5	−0·7	22	1008
7. ENGLAND, N.W.	75	25	87·1	81·4	84·2	+ 0·7	716	+ 73	6	− 18	47	+ 7	10·12	259	+ 52	2·4	−0·8	21	1010
8. ENGLAND, S.W.	72	31	88·2	82·7	85·3	+ 1·1	854	+123	0	− 18	44	+ 3	12·00	306	+ 75	2·8	−0·9	25	1012
9. IRELAND, NORTH ...	73	33	86·8	81·3	84·0	+ 1·0	703	+106	11	− 18	54	+ 8	10·37	264	+ 53	2·1	−1·0	19	1007
10. IRELAND, SOUTH ...	77	29	87·9	82·4	85·1	+ 1·3	823	+138	2	− 23	53	+12	12·29	313	+108	2·3	−1·3	21	1010
11. ENGLISH CHANNEL ...	73	39	88·9	84·4	86·5	+ 0·5	1007	+ 70	0	0	45	+ 1	10·15	257	+ 57	3·8	−0·8	34	1012

THE YEAR.—Aggregates, &c., for the Period of 45 Weeks, January 2nd to November 11th, 1916.

0. SCOTLAND, NORTH ...	81	20	84·2	78·4	81·2	+ 0·1	1979	− 52	471	−141	216	+ 6	49·08	1245	+150	2·8	−0·6	22	1009
Eastern.																			
1. SCOTLAND, EAST ...	82	7	84·9	77·7	81·1	− 0·2	2121	−158	651	− 41	192	+18	35·89	913	+251	3·4	−0·6	26	1009
2. ENGLAND, N.E.	84	20	86·1	79·1	82·5	+ 0·4	2678	+127	402	−106	170	+13	23·28	593	+ 52	3·7	−0·7	29	1011
3. ENGLAND, EAST ...	83	24	86·9	79·6	83·1	+ 0·4	2978	+ 31	362	−198	171	+19	24·17	613	+100	4·0	−0·8	31	1013
4. MIDLAND COUNTIES ...	84	21	87·1	79·0	82·9	+ 0·4	2932	+ 68	436	−147	167	+16	25·52	651	+ 77	3·7	−0·5	29	1012
5. ENGLAND, S.E.	86	15	87·5	80·2	83·7	+ 0·3	3241	+ 54	296	−110	164	+19	28·50	725	+148	4·4	−0·4	34	1013
Western.																			
6. SCOTLAND, WEST ...	83	17	85·7	79·1	82·3	+ 0·2	2526	+ 54	377	− 86	200	+18	39·92	1019	+ 11	3·9	−0·2	30	1011
7. ENGLAND, N.W.	83	8	86·1	79·9	82·9	+ 0·3	2795	+ 85	316	− 94	180	+12	32·24	821	+ 75	3·8	−0·4	29	1012
8. ENGLAND, S.W.	84	17	87·1	80·5	83·5	+ 0·2	3111	+ 88	279	− 40	178	+12	37·43	958	+149	4·3	−0·4	34	1013
9. IRELAND, NORTH ...	81	18	85·7	79·5	82·5	+ 0·1	2619	+ 35	345	− 29	214	+16	34·92	893	+ 73	3·4	−0·4	27	1011
10. IRELAND, SOUTH ...	85	20	87·0	80·4	83·6	+ 0·3	3109	+138	246	− 38	218	+42	37·27	943	+ 98	4·0	−0·3	31	1013
11. ENGLISH CHANNEL ...	80	30	87·4	82·2	84·7	+ 0·1	3595	+ 72	85	− 24	176	− 1	30·03	759	+ 87	5·2	−0·5	41	1014
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics. South Kensington, S.W., November 16th, 1916.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 46. SUNDAY, NOVEMBER 12TH, TO SATURDAY, NOVEMBER 18TH, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE FORTY-SIXTH WEEK OF 1916.

The outstanding feature of the week was the drop of temperature at its close. Heavy rain fell in Ireland on the 16th, extending to the south-west of England on the 17th, and reaching England generally, in the form of snow, sleet, or rain, on the 18th. More than 25 mm. in one continuous downpour was recorded at numerous stations over the southern half of the Kingdom, as well as at a few in the north-east of England and the adjacent portion of Scotland. Among the largest falls in Ireland were 40 mm. at Dublin, 48 mm. at Ballinacurra, 50 mm. at Cahir, and 89 mm. at Killarney. At Seskin 35 mm. fell on the 16th, followed by 30 mm. on the 17th, causing high floods in the Suir Valley. Newspapers report abnormally high floods at Fermoy also. In England there was 46 mm. at Salcombe, 57 mm. at Plymouth, 48 mm. at Fulbeck, and 38 mm. at Rauceby, and in Scotland 31 mm. at Marchmont. A considerable part of the fall consisted of snow which generally melted as it fell or very soon afterwards. For the week generally the total rainfall was heavy in England North-East, very heavy in Ireland South, moderate in most other districts, light in England North-West and Scotland West, and very light in Scotland North. Temperature was high early in the week and very low at its close. The mean for the period was not far from the normal generally, but somewhat above it in Ireland and the northern parts of Great Britain. The highest of the maxima were registered on the 12th or 13th, when readings of about 289 a. were common. On the 17th or 18th, when the thermometer reached its lowest point, readings of about 270 a. were recorded in England South-West and the Midland Counties, while most other districts had minima below 273 a. Bright sunshine was very scanty in Ireland, scanty in England North-East and South-West, Scotland West and the English Channel, moderate elsewhere. In England East the mean per day was 2·6 hrs., whence it decreased to 1·1 hr. in Scotland West and England South-West, and to about 0·5 hr. in Ireland. Aurora was observed at Aberdeen on the night of the 17th. The temperature of the air was about 3 a. below that of the sea on the south coast of England, whereas off the west of Ireland the difference was only 1 a.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.
		m/s		m/s		m/s		m/s		m/s		m/s		m/s		m/s
South	5	8·6	5	4·6	4	4·4	3	1·9	6	4·2	6	6·9	5	7·0	5	5·1
North	2	1·9	2	1·5	3	2·1	2	2·3	1	2·4	1	2·7	1	1·5	1	2·7
West	2	6·1	2	5·6	2	2·9	2	1·2	2	3·2	1	3·8	1	1·6	1	3·8
East	5	7·3	5	4·8	5	10·6	5	4·7	4	7·8	5	4·7	6	6·0	6	3·4
Calm	0	—	0	—	0	—	¼	—	0	—	¼	—	0	—	¼	0

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c. is printed on a separate sheet. *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel.
Comparison with normal for the time of year ...	Warmth ...	Unusual	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Unusual	Moderate	Deficient
	Rainfall ...	Very light	Moderate	Heavy	Moderate	Moderate	Moderate	Light	Light	Moderate	Moderate	Very heavy	Moderate
	Sunshine ...	Moderate	Moderate	Scanty	Moderate	Moderate	Moderate	Scanty	Moderate	Scanty	Very scanty	Very scanty	Scanty

II.—THE AUTUMN SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

AUTUMN. 11 weeks from Sept. 3rd, 1916.	Warmth ...	4, 4, 3	3, 6, 2	5, 5, 1	4, 4, 3	5, 5, 1	5, 4, 2	4, 5, 2	5, 4, 2	4, 7, 0	5, 5 1	4, 6, 1	3, 6, 2
	Rainfall ...	3, 3, 5	4, 6, 1	4, 3, 4	3, 5, 3	3, 5, 3	4, 4, 3	3, 5, 3	4, 3, 4	5, 2, 4	4, 6, 1	5, 4, 2	4, 5, 2
	Sunshine ...	1, 5, 5	2, 6, 3	0, 7, 4	0, 6, 5	1, 5, 5	1, 6, 4	0, 3, 8	1, 3, 7	0, 4, 7	0, 4, 7	0, 3, 8	1, 4, 6

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.) and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.

Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(9680 –19.) Wt. 79a—736. 450. 11/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.	Deviation from Normal.		Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.	*51*	—	—	—	—	—	—	—	—	2	0·05	1	—	•	•	•	•	•	•	•	•	•	*Baltasound.*
a, Islands.. *p Baltasound*	54	48	12th	38	14, 15	45·7	40·9	43·3	+ 0·3	2	0·05	1	—	0·6	- 0·7	8	•	•	•	•	•	•	Deerness.
a Lerwick..	51	53	13th	41	17, 18	49·9	46·1	48·0	+ 4·7	4	0·48	12	- 22	1·5	0·0	19	•	•	•	•	•	•	Stornoway.
a Stornoway	*37*	*54*	*14th*	*40*	*17, 18*	*49·9*	*46·7*	*48·3*	+ *2·1*	*4*	*0·37*	*10*	—	*0·2*	—	*3*	•	•	•	•	•	•	*Castlebay.*
a Castlebay, Barra Isd.																							
b, Mainland. *a* Wick	81	50	12th	35	14th	47·0	42·1	44·6	+ 2·1	4	0·44	11	- 6	•	•	•	•	•	•	•	•	•	
p Strathpeffer	200	58	12th	31	17th	50·0	40·3	45·2	+ 3·6	2	0·06	2	- 15	•	•	•	•	•	•	•	•	•	Strathpeffer.
p Glencarron	500	52	12th	30	18th	47·4	40·3	43·9	+ 2·5	3	0·35	9	- 44	•	•	•	•	•	•	•	•	•	
p Fort Augustus..	68	56	12, 13	38	17th	50·0	44·6	47·3	+ 5·1	2	0·04	1	- 24	1·5	+ 0·7	19	•	•	•	•	•	•	Fort Augustus.
p Fort William ..	171	54	12, 13	37	18th	49·1	44·0	46·6	+ 3·7	3	0·12	3	- 45	•	•	•	•	•	•	•	•	•	
1. SCOTLAND, E.														0·3	—	4	1	23	44·3	+2·6	46·0	-0·8	Crathes.
p Gordon Castle ..	101	57	12th	36	17th	48·9	40·9	44·9	+ 2·3	4	0·25	6	- 10	*1·9*	—	*24*	•	•	•	•	•	•	*Gordon Castle.*
a Nairn ..	82	54	12, 13	35	17th	47·9	41·4	44·7	+ 3·0	3	0·16	4	- 8	2·4	—	30	•	•	•	•	•	•	Nairn.
a Aberdeen ..	46	55	12th	38	18th	48·0	44·1	46·1	+ 3·5	3	0·20	5	- 12	0·0	- 1·9	0	0	35	•	•	48·9	+0·8	Aberdeen.
a Balmoral ..	930	60	13th	32	18th	50·1	39·0	44·6	+ 5·7	3	0·65	17	- 5	•	•	•	1	30	•	•	•	•	Balmoral.
p Crieff ..	432	60	13th	29	16th	47·9	38·0	43·0	+ 1·1	5	0·74	19	- 8	1·9	—	24	•	•	•	•	•	•	Balruddery.
a Leith ..	18	57	12th	34	17th	48·4	43·1	45·8	+ 2·0	2	0·28	7	- 4	•	•	•	•	•	•	•	•	•	
a West Linton ..	769	53	12th	30	17, 18	44·1	39·3	41·7	+ 3·0	3	0·62	16	—	*1·3*	—	*16*	4	23	•	•	•	•	*West Linton.*
p Marchmont ..	498	58	12, 13	34	16, 18	48·0	39·7	43·9	+ 2·6	3	1·31	33	+ 14	1·1	- 0·6	14	2	26	•	•	•	•	Marchmont.
a Edinburgh	*441*	*56*	*12th*	*32*	*16, 17*	*47·3*	*39·9*	*43·6*	—	*2*	*0·31*	*8*	—	1·8	—	22	2	27	•	•	•	•	Edinburgh.
6. *a*, SCOTLAND, W.																							
a Poltalloch ..	132	53	12th	—	—	46·7	—	—	—	3	0·59	15	- 17	•	•	•	•	•	•	•	•	•	
p Glasgow Observatory	180	56	12th	33	17th	48·0	42·3	45·2	+ 2·2	2	0·08	2	- 20	1·2	+ 0·2	15	1	26	•	•	•	•	Glasgow.
p Rothesay ..	170	62	12th	33	17th	49·1	42·1	45·6	+ 1·6	2	0·31	8	- 21	*1·2*	—	*15*	1	30	47·0	•	48·7	+1·6	*Rothesay.*
a Kilmarnock ..	90	58	12th	33	17th	49·0	44·1	46·6	+ 3·9	3	0·21	5	—	*1·4*	—	*17*	•	•	47·1	•	48·8	•	*Kilmarnock.*
a Colmonell ..	170	57	12th	30	18th	48·3	42·7	45·5	+ 2·8	1	0·15	4	- 27	•	•	•	2	28	•	•	•	•	
a Dumfries ..	160	56	12th	32	17th	47·0	40·4	43·7	+ 0·7	1	0·08	2	- 21	*1·6*	—	*19*	3	26	46·5	•	49·0	•	*Dumfries.*
Eskdalemuir	*794*	*54*	*12, 13*	*28*	*16th*	*44·9*	*39·3*	*42·1*	—	*4*	*0·33*	*8*	—	*1·3*	—	*16*	•	•	•	•	•	•	*Eskdalemuir.*
p Cally, Gatehouse	120	55	13th	32	17th	46·9	41·3	44·1	+ 1·1	1	0·34	9	- 23	•	•	•	•	•	•	•	•	•	
b, I. OF MAN. *p* Douglas ..	277	57	13th	35	18th	49·9	42·9	46·4	+ 0·9	1	0·41	10	- 18	0·9	- 1·2	11	0	35	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	61	13th	31	16th	49·3	41·4	45·4	+ 2·4	4	0·95	24	+ 5	1·1	—	13	2	20	44·4	+4·6	46·9	+1·9	Cockle Park.
p Tynemouth ..	71	57	12, 13	36	17th	48·0	43·7	45·9	+ 2·2	3	0·94	24	+ 11	•	•	•	•	•	•	•	•	•	Tynemouth
p Durham ..	336	60	13th	29	16th	48·3	39·6	44·0	+ 1·3	3	0·85	22	+ 8	0·8	- 1·1	19	2	23	•	•	•	•	Durham.
a North .. *p* Rounton ..	249	58	13th	27	16th	48·1	38·9	43·5	+ 1·0	4	0·44	11	- 3	•	•	•	1	27	46·2	•	•	•	Rounton.
a West Witton	*605*	*56*	*13th*	*28*	*16th*	*44·7*	*39·4*	*42·1*	—	*3*	*0·94*	*24*	—	•	•	•	3	25	45·6	•	46·7	•	*West Witton.*
p Scarborough† ..	100	60	13th	35	18th	48·6	42·7	45·7	+ 1·3	7	0·89	23	+ 8	0·6	—	7	•	•	•	•	52·6	•	Scarborough.
p York ..	56	58	13th	34	18th	48·4	41·4	44·9	+ 1·5	4	0·51	13	+ 1	1·1	- 0·3	13	•	•	47·9	+3·0	49·7	+0·4	York.
b, South .. *a* Spurn Head	26	53	12th	35	18th	48·0	42·6	45·3	+ 0·3	3	0·60	15	+ 4	*1·2*	—	*14*	•	•	•	•	•	•	*Spurn Head.*
a Lincoln ..	58	59	13th	31	17th	48·8	40·3	44·6	+ 1·6	1	0·92	23	+ 12	•	•	•	•	•	45·7	+2·6	49·8	+0·6	Lincoln.
a Fulbeck ..	180	60	12th	31	16th	47·6	39·6	43·6	+ 0·8	1	1·89	48	+ 37	2·0	—	23	3	25	47·0	+3·9	50·1	+0·2	Rauceby.
														2·2	—	26	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																							
p Cromer ..	196	60	12th	35	18th	49·3	41·6	45·5	+ 2·2	1	0·45	11	—	2·3	—	27	•	•	•	•	•	•	Cromer.
p Little Massingham ..	280	55	12, 13	31	17, 18	46·3	36·7	41·5	- 1·5	1	0·41	10	- 5	2·7	+ 0·8	31	3	28	•	•	•	•	Lit. Massingham.
a, North .. *a* Yarmouth ..	13	60	12, 13	39	18th	48·7	43·4	46·1	+ 1·8	1	0·55	14	0	2·4	—	28	•	•	47·7‡	+4·9	51·3	+1·5	Yarmouth.
a Norwich ..	93	58	12, 13	35	18th	47·6	40·7	44·2	+ 0·9	1	0·91	23	—	*2·6*	—	*30*	3	29	45·9	•	•	•	*Norwich.*
a Geldeston ..	37	61	12, 13	33	18th	49·0	39·0	44·0	- 0·2	3	0·71	18	+ 5	2·8	+ 0·6	32	•	•	•	•	•	•	Geldeston.
b, South .. *p* Cambridge ..	41	?59	13th	33	17, 18	47·9	37·1	42·5	- 1·0	1	0·36	9	- 2	2·7	+ 0·6	31	4	25	46·8	+3·0	50·9	+0·9	Cambridge.
a Clacton-on-Sea ..	54	59	13th	35	18th	48·0	41·1	44·6	- 0·4	2	0·56	14	—	2·9	—	33	0	35	47·5	0·0	52·2	+1·3	Clacton.
a Rothamsted ..	424	58	13th	30	17, 18	46·7	36·6	41·2	- 1·8	2	0·59	15	- 1	3·1	+ 1·0	36	4	22	46·3	•	•	•	Rothamsted.
p Tottenham ..	51	55	13th	30	17, 18	47·0	37·9	42·5	- 2·1	1	0·63	16	—	2·0	—	23	2	30	•	•	51·8	+0·5	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate ..	479	55	13th	28	16th	44·3	39·1	41·7	- 0·8	4	0·96	24	+ 7	1·0	—	12	3	25	46·0	+2·4	47·6	+1·3	Harrogate.
p Buxton ..	*987*	*55*	*12th*	*28*	*17th*	*43·1*	*37·1*	*40·1*	- *0·5*	*2*	*0·36*	*9*	- *19*	*1·3*	—	*15*	2	26	43·2	+1·6	46·5	-1·6	*Buxton.*
a Bawtry ..	65	58	12th	27	16th	46·9	39·1	43·0	0·0	3	1·16	29	+ 18	1·7	—	20	2	27	46·6	+3·1	49·2	+1·6	Sheffield.
a Nottingham ..	82	60	13th	30	16th	47·9	39·0	43·5	+ 0·4	1	0·91	23	+ 12	1·4	- 0·2	16	3	19	46·2	•	48·8	•	Worksop.
b, East .. *p* Birmingham, Edgbn.	535	61	12th	30	17th	46·4	37·6	42·0	- 1·2	1	0·68	17	+ 3	2·4	—	28	3	27	45·3	+3·3	49·0	+1·0	Nottingnam.
a Raunds ..	203	61	13th	28	17th	48·4	35·4	41·9	- 0·8	1	0·88	22	—	1·9	—	22	4	25	45·7	+1·8	49·4	+0·3	Birmingham.
p Oxford ..	208	53	12, 13	33	16–18	45·4	37·6	41·5	- 2·5	1	0·81	21	+ 7	*3·3*	—	*38*	3	21	47·9	•	52·1	•	*Raunds.*
														1·8	- 0·2	21	2	23	•	•	•	•	Oxford
c, West .. *a* Cheadle ..	646	59	12th	28	17th	45·1	38·1	41·6	- 0·7	1	0·52	13	- 4	•	•	•	3	27	•	•	•	•	Cheadle.
p Shrewsbury ..	191	60	12th	27	17th	49·9	33·9	41·9	- 2·1	1	0·48	12	—	•	•	•	3	25	•	•	•	•	Shrewsbury.
a Hereford§ ..	291	59	12th	31	17th	47·0	36·9	42·0	- 1·5	1	0·37	10	- 4	*2·4*	—	*28*	3	22	45·1	•	49·5	•	*Malvern.*§
a Bath ..	66	54	13th	31	18th	46·6	39·0	42·8	- 1·7	2	0·33	8	- 10	•	•	•	•	•	48·5	+2·1	52·1	+0·3	Bath.
5. ENGLAND, S.E.														1·6	—	18	0	31	48·7	+4·1	53·0	+1·6	Worthing.
a Marlborough ..	424	59	13th	30	18th	47·3	35·6	41·5	- 1·0	1	0·41	10	- 9	1·6	- 1·0	18	3	23	46·7	•	51·0	•	Marlborough.
a Margate ..	53	58	13th	33	18th	47·0	41·3	44·2	- 1·4	1	0·59	15	+ 1	2·8	+ 0·7	32	1	30	47·8	+2·5	52·1	+2·6	Margate.
a Wisley, Surrey ..	150	54	13th	32	18th	45·4	37·1	41·3	- 3·5	1	0·71	18	—	1·8	—	20	5	22	46·6	+2·6	50·8	+1·1	Wisley.
p Salisbury (Wilton) ..	180	60	13th	30	18th	49·1	37·1	43·1	- 0·6	2	0·41	10	- 11	•	•	•	2	28	47·0	•	•	•	Salisbury.
a Tunbridge Wells ..	354	60	13th	30	18th	46·7	37·0	41·9	- 2·1	1	0·72	18	- 2	2·7	+ 0·4	30	4	26	48·1	+4·9	52·1	•	Tunbridge Wells.
a Dungeness ..	21	53	13th	33	18th	47·6	41·0	44·3	- 2·1	2	0·56	14	- 1	•	•	•	•	•	•	•	•	•	Littlestone.
p Hastings..	178	53	12th	32	18th	47·0	39·9	43·5	- 2·5	5	1·05	27	+ 8	2·0	- 0·5	22	0	31	47·5	•	52·7	•	Hastings.
p Southampton ..	64	55	13th	32	18th	47·6	40·0	43·8	- 2·2	2	0·48	12	- 7	1·1	- 1·1	12	2	29	•	•	•	•	Southampton.
a Ventnor ..	59	56	13th	33	18th	48·0	42·7	45·4	- 2·6	2	1·12	29	+ 10	1·1	- 1·3	12	•	•	•	•	•	•	Ventnor.
LONDON. *p* Kew Observatory	18	53	12th	32	17th	45·1	37·9	41·5	- 2·6	1	0·66	17	+ 4	2·2	+ 0·5	25	2	27	45·7	+1·6	50·7	+0·4	Kew Obs.
a Westminster	*27*	*54*	*12th*	*33*	*17th*	*47·5*	*39·7*	*43·6*	- *0·9*	*1*	*0·74*	*19*	+ *6*	*1·8*	+ *0·8*	*21*	2	29	•	•	•	•	*Westminster.*
a Greenwich	*155*	*52*	*12th*	*30*	*17, 18*	*46·3*	*36·4*	*41·4*	- *3·1*	*1*	*0·76*	*19*	+ *6*	*2·8*	+ *1·2*	*32*	4	24	•	•	•	•	*Greenwich.*
a Hampstead	*450*	*53*	*12th*	*30*	*17, 18*	*44·6*	*36·9*	*40·8*	—	*1*	*0·66*	*17*	—	*2·0*	—	*23*	5	17	•	•	•	•	*Hampstead.*
a Camden Square	*110*	*54*	*12th*	*32*	*17th*	*46·7*	*38·9*	*42·8*	—	*1*	*0·75*	*19*	—	*1·2*	—	*14*	2	27	•	•	•	•	*Camden Square.*
7. *a*, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	54	12-14	31	18th	46·9	40·3	43·6	+ 0·8	1	0·22	6	- 19	2·0	—	24	2	26	46·2	•	48·9	•	Hoylake.
p Newton Rigg ..	559	57	12th	28	17th	46·0	38·4	42·2	+ 0·8	1	0·16	4	- 18	1·8	+ 0·1	22	3	25	46·6	+3·3	48·0	+0·7	Aspatria.
p Stonyhurst ..	375	52	12, 13	32	17th	46·0	40·7	43·4	+ 0·4	2	0·19	5	- 22	1·2	- 0·4	14	2	28	•	•	•	•	Newton Rigg.
p Blackpool ..	66	52	12, 14	33	17, 18	46·0	41·4	43·7	- 0·8	2	0·24	6	- 15	1·6	0·0	19	2	29	47·4	•	51·0	•	Stonyhurst.
a Southport ..	37	53	12th	33	17th	45·9	41·3	43·6	- 0·7	2	0·33	8	- 12	1·6	0·0	19	3	29	44·7	+2·9	48·9	+1·5	Blackpool.
a Liverpool (Bidston) ..	188	57	12th	32	17th	46·7	40·0	43·4	- 0·3	2	0·20	5	- 11	*1·9*	—	*22*	•	•	•	•	•	•	Southport.
a Hawarden Bridge ..	22	59	12th	33	17th	47·2	38·6	42·9	- 2·5	1	0·32	8	- 6	*0·6*	—	*7*	2	28	46·0	+3·3	50·9	+1·1	*Liverpool.*
p Manchester (Whit. Pk.)	125	55	12th	33	17th	46·7	40·3	43·5	- 1·0	1	0·04	1	- 15	*1·0*	+ *0·3*	*12*	•	•	•	•	•	•	*Manchester (City)*
																							„ (Whit. Park)
b, NORTH WALES.																							
p Llandudno ..	71	58	14th	33	17th	51·6	41·0	46·3	- 0·3	1	0·26	7	- 11	2·5	+ 0·6	29	•	•	•	•	•	•	Llandudno.
a Holyhead ..	15	60	14th	36	18th	48·9	44·4	46·7	- 0·3	2	0·17	4	- 21	*1·2*	—	*14*	•	•	•	•	•	•	*Holyhead.*
p Bettws-y-Coed ..	148	55	13, 14	31	17th	47·6	39·3	43·5	- 2·8	1	0·14	4	—	1·7	—	29	•	•	46·0	+3·0	49·7	+1·3	Bettws-y-Coed.
														2·5	—	29	•	•	•	•	•	•	Aberdovey

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														2·9	—	33							
a Llangammarch Wells	550	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	Aberystwyth
a Pembroke	149	52	13, 14	31	18th	48·6	43·6	46·1	− 1·9	4	1·15	29	+ 6	•	•	•	•	•	•	•	•	•	Llangammarch.
p Cardiff	202	52	12, 14	30	17, 18	45·6	36·9	41·3	− 3·2	2	0·28	7	− 17	0·1	− 2·0	1	•	•	•	•	•	•	Pembroke.
														0·6	—	*7*	0	31	47·4	+3·9	51·7	+1·9	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	53	12, 14	31	18th	46·0	40·0	43·0	− 2·0	2	0·37	10	− 9	*0·9*	—	*10*	1	29	•	•	•	•	*Clifton.*
a Shaftesbury	722	52	13th	27	18th	43·9	38·4	41·2	− 2·8	2	0·38	10	− 11	•	•	•	•	•	46·0	•	50·3	•	Shaftesbury.
a Arlington	613	58	13th	29	18th	47·1	37·6	42·4	− 2·3	1	0·30	8	− 26	•	•	•	•	•	•	•	•	•	Arlington.
a Newquay	*190*	*53*	*12th*	*35*	*18th*	*49·4*	*41·3*	*45·4*	− 2·9	*6*	*1·74*	*44*	+ 25	1·1	− 1·5	12	•	•	50·5	•	52·9	•	Newquay.
a Cullompton	202	59	12th	31	18th	48·9	37·6	43·3	− 1·7	3	0·84	21	− 1	1·1	− 0·8	12	2	29	47·7	•	•	•	Cullompton.
a Portland Bill	19	53	14th	33	18th	48·9	43·3	46·1	− 1·8	2	0·83	21	—	*1·0*	—	*11*	•	•	•	•	•	•	*Weymouth.*
p Plymouth	116	54	15th	33	18th	49·1	40·3	44·7	− 2·8	3	2·61	66	+ 44	0·4	− 1·9	4	•	•	48·7	+1·7	52·7	•	Plymouth.
a Falmouth	167	53	14th	39	18th	48·9	44·0	46·5	− 2·0	4	1·82	46	+ 17	0·8	− 1·8	9	0	32	51·1	•	53·8	•	Falmouth.
9. IRELAND. N.																							
a, West .. { *a* Malin Head	208	56	12th	36	17, 18	49·3	45·0	47·2	+ 1·7	1	0·24	6	− 13	*0·5*	—	*6*	•	•	•	•	•	•	*Malin Head.*
a Blacksod Point ..	327	52	12, 15	35	18th	48·3	45·4	46·9	+ 0·3	6	1·33	34	+ 3	•	•	•	•	•	•	•	•	•	•
p Markree Castle ..	122	56	16th	34	17th	51·0	43·4	47·2	+ 3·4	5	2·12	54	+ 29	0·4	− 1·5	5	0	32	48·6	•	50·2	•	Markree Castle.
a Birr Castle	175	55	12th	36	18th	49·4	44·9	47·2	+ 3·7	3	0·56	14	− 5	*0·1*	*− 2·0*	*1*	•	•	•	•	•	•	*Birr Castle.*
b, East .. { *p* Armagh	196	55	14th	32	18th	49·4	43·3	46·4	+ 2·7	3	0·31	8	− 10	0·6	− 1·4	7	0	34	48·7	+4·7	50·3	+1·2	Armagh.
a Donaghadee	101	55	12, 13	38	18th	48·9	46·1	47·5	+ 2·3	1	0·13	3	− 16	•	•	•	•	•	•	•	•	•	•
														•	•	•	0	34	48·7	+3·5	50·7	+1·4	Trinity Coll. Phœnix Park.
10. IRELAND, S.														0·9	− 1·5	10	0	33	•	•	•	•	Dublin City.
a, East .. { *p* Dublin, City	47	57	12th	36	17, 18	50·1	44·1	47·1	+ 1·1	5	2·09	53	+ 36	•	•	•	0	33	•	•	•	•	•
a Kilkenny	212	52	12-14	36	18th	48·1	43·7	45·9	+ 1·9	6	1·35	34	+ 15	•	•	•	•	•	•	•	•	•	•
a Waterford	20	54	12th	36	18th	49·7	44·7	47·2	+ 1·7	5	2·53	64	+ 41	•	•	•	•	•	•	•	•	•	•
a Seskin, Carrick-on-Suir	*541*	*56*	*12th*	*31*	*18th*	*48·6*	*41·7*	*45·2*	—	*6*	*3·15*	*80*	—	*0·2*	—	*2*	0	32	•	•	•	•	*Seskin.*
b, West .. { *a* Birr Castle	175	55	12th	36	18th	49·4	44·9	47·2	+ 3·7	3	0·56	14	− 5	0·1	− 2·0	1	•	•	•	•	•	•	Birr Castle.
a Foynes	50	56	12th	36	18th	50·1	45·4	47·8	+ 2·3	4	1·90	48	+ 24	•	•	•	•	•	•	•	•	•	•
a Cahir	199	52	14, 15	34	18th	47·9	44·6	46·3	+ 1·0	4	2·70	69	—	•	•	•	•	•	•	•	•	•	•
a Killarney	174	62	12th	37	18th	52·8	46·6	49·7	+ 3·7	5	4·21	107	+ 72	•	•	•	•	•	•	•	•	•	•
a Valencia	30	55	12th	36	18th	51·3	46·6	49·0	+ 1·0	5	2·85	72	+ 38	0·4	− 1·9	5	•	•	•	•	•	•	Valencia.
a Roche's Point	32	52	15th	39	18th	49·7	46·4	48·1	+ 0·5	7	2·49	63	+ 46	0·1	—	1	•	•	•	•	•	•	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	52	15, 17	44	18th	50·3	46·6	48·5	− 1·7	5	1·37	35	+ 14	0·1	− 2·6	1	•	•	•	•	•	•	Scilly.
a Jersey, St. Aubins ..	25	54	12th	38	17, 18	48·3	43·1	45·7	− 3·4	3	1·03	26	+ 3	2·5	− 0·2	28	•	•	•	•	•	•	St. Heliers.
a Guernsey (Villa Carey)	180	53	14, 15	39	16-18	48·4	44·4	46·4	− 3·1	4	1·10	28	+ 1	1·7	− 0·5	19	0	34	49·5	+0·5	53·9	+0·8	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, November 18th, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Height. Above Ground.	Height. Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Gales, force 8 or more. Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	High Winds, forces 6 and 7. Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.		Date and Hour, G.M.T.	Highest Gust with Date and Time, G.M.T.		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.		m/s.	d.	h. m.
1. SCOTLAND, E.																	
Dyce	305	75	‡15**	—	—	—	—	59	57	52	0	—	10	18th 24h.	22	18th	22 . 51
Aberdeen*	153	105	{ 37 / 52 } †	18th	6	16 to 18	39	39	48	36	0	E. by S.	18	18th 14h.	30	18th	12 . 2
Edinburgh	485	39	31	—	—	16, 17	17	86	55	10	0	SE.	13	16th 23h.	22	16th	22 . 35
6 SCOTLAND, W.																	
Eskdalemuir	825	50	22	—	—	12, 17, 18	24	51	50	43	0	W. by S.	15	12th 1h.	27	18th	12 . 20
Paisley	188	81	52	—	—	17th	1	56	91	20	0	SE.	12	17th 16h.	24	17th	15 . 55
2. ENGLAND, N.E.																	
Alnwick Castle	340	70	17	—	—	17, 18	29	34	67	38	0	ESE.	13	18th 24h.	23	18th	23 . 4
South Shields	72	61	12	17, 18	16	16 to 18	24	53	68	7	0	ESE.	20	18th 20h.	26	18th	20 . 0
Spurn Head	66	40	‡	18th	1	16 to 18	55	26	29	1	56	SSE.	17	18th 9h.	24	18th	9 . 24
3. ENGLAND, E.																	
Gorleston	52	42	‡	18th	16	17, 18	30	53	58	0	11	—	19	18th 16h.	25	18th	16 . 18
Shoeburyness	103	90	‡	—	—	16 to 18	45	47	67	9	0	SE. by E.	17	17th 21h.	22	18th	3 . 47
4. MIDLAND COUNTIES.																	
Benson	270	84	‡	—	—	17, 18	15	44	42	67	0	E. by S.	14	17th 17h.	21	17th	16 . 56
5. ENGLAND, S.E.																	
Dover	271	40	‡	—	—	17, 18	30	72	23	43	0	—	14	18th 2h.	20	17th	19 . 30
Warlingham	642	33	‡	—	—	—	—	29	88	21	30	—	9	17th 13h.	19	17th	10 . 40
Brighton	261	53	6	—	—	17th	11	45	76	36	0	—	12	17th 9h.	22	17th	10 . 45
Kew Observatory ..	82	65	{ 6 / 22 } †	—	—	17, 18	8	49	54	54	3	ENE.	12	18th 8h.	18	17th	11 . 42
South Kensington‖ ..	123	92	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7. ENGLAND, N.W.																	
Carnforth	246	56	23	—	—	—	—	32	83	53	0	SE. by E.	9	17th 17h.	20	17th	16 . 20
Southport	80	62	48	—	—	12, 16 to 18	45	62	44	17	0	SE. by E.	16	17th 12h.	25	17th	11 . 35
Holyhead*	60	40	‡	17, 18	6	15 to 18	42	69	40	11	0	E. by S.	19	18th 5h.	26	18th	4 . 58
8. ENGLAND, S.W.																	
Pendennis Castle§ ..	256	65	24	16 to 18	22	15 to 18	44	27	37	38	0	SE.	25	17th 8h.	31	17th	10 . 0
Plymouth	185	88	2	—	—	16 to 18	30	58	31	49	0	—	16	17th 3h.	25	17th	4 . 26
Lyme Regis	556	61	‡	16, 17	19	16 to 18	18	40	18	73	0	—	23	17th 10h.	28	17th	15 . 21
10. IRELAND, S.																	
Quilty	100	40	‡	16, 17	11	15 to 18	26	65	57	4	5	—	20	16th 17h.	28	16th	17 . 15
Weaver Pt.	160	30	‡	—	—	15, 16	18	31	35	20	64	—	15	15th 22h.	21	15th	20 . 35
11. ENGLISH CHANNEL.																	
Scilly*	150	{ 32 / 19 }	‡	16, 17	11	15 to 18	19	54	60	24	0	SE. by S.	22	17th 7h.	31	17th	7 . 35

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.

† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof. ‖ The Anemograph at S. Kensington was dismounted on November 9th.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

FORTY-SIXTH WEEK—November 12th to November 18th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Accumulated Number of Day-Degrees. Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Rainfall. Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Sunshine. Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	Pressure Mean for the Week at M.S.L.
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	58	30	82·1	78·9	80·6	+ 1·8	25	+ 5	0	− 16	3	− 2	0·22	6	− 25	1·2	+0·1	15	1016
Eastern.																			
1. SCOTLAND, EAST ...	60	29	81·8	77·8	79·8	+ 1·5	22	+ 3	4	− 18	3	− 1	0·53	13	− 5	1·3	−0·5	16	1017
2. ENGLAND, N.E.	61	37	82·1	78·1	80·1	+ 0·9	23	0	3	− 11	3	− 1	0·89	23	+ 9	1·3	−0·5	15	1018
3. ENGLAND, EAST ...	61	30	81·7	77·1	79·4	+ 0·1	23	− 3	8	− 8	1	− 3	0·57	14	+ 1	2·6	+0·5	30	1017
4. MIDLAND COUNTIES ...	61	27	81·2	76·1	78·7	− 0·2	20	− 3	12	− 7	2	− 1	0·71	18	+ 4	1·7	0·0	20	1017
5. ENGLAND, S.E.	60	30	81·4	76·9	79·2	− 1·1	20	− 13	8	− 2	2	− 2	0·67	17	0	1·9	−0·2	21	1016
Western.																			
6. SCOTLAND, WEST ...	62	30	82·1	78·7	80·4	+ 0·8	23	− 2	0	− 12	2	− 2	0·27	7	− 24	1·1	−0·5	14	1017
7. ENGLAND, N.W.	60	28	81·6	77·7	79·6	− 0·2	20	− 6	4	− 6	1	− 3	0·20	5	− 15	1·9	+0·3	22	1015
8. ENGLAND, S.W.	59	27	81·6	77·6	79·6	− 1·2	20	− 16	5	− 3	3	− 1	0·95	24	0	1·1	−1·0	12	1013
9. IRELAND, NORTH ...	56	32	82·7	80·1	81·4	+ 1·7	36	+ 10	0	− 12	3	− 1	0·78	20	− 4	0·5	−1·5	6	1011
10. IRELAND, SOUTH ...	62	34	82·9	80·3	81·7	+ 1·2	39	+ 4	0	− 10	5	+ 1	2·30	58	+ 33	0·4	−1·9	4	1010
11. ENGLISH CHANNEL ...	54	38	82·4	80·1	81·3	− 1·5	34	− 20	0	− 1	4	− 1	1·17	30	+ 7	1·4	−1·1	16	1012

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 11 Weeks, September 3rd to November 18th, 1916.

0. SCOTLAND, NORTH ...	71	24	84·8	79·4	82·1	+ 0·5	510	+ 13	17	− 54	53	− 2	15·33	391	+ 63	2·0	−0·5	18	1096
Eastern.																			
1. SCOTLAND, EAST ...	74	18	85·5	78·3	81·8	+ 0·2	528	0	70	− 24	45	0	8·83	224	+ 41	2·7	−0·3	26	1008
2. ENGLAND, N.E.	74	24	86·7	80·0	83·3	+ 0·6	693	+ 69	27	− 20	42	+ 1	5·95	152	− 8	2·9	−0·4	27	1010
3. ENGLAND, EAST ...	71	24	87·3	80·6	83·9	+ 0·6	765	+ 52	17	− 38	40	0	5·97	152	+ 2	3·1	−0·6	28	1012
4. MIDLAND COUNTIES ...	73	24	87·2	79·8	83·4	+ 0·7	739	+ 88	43	− 26	42	+ 3	7·15	182	+ 20	2·7	−0·5	25	1012
5. ENGLAND, S.E.	73	27	88·0	81·6	84·7	+ 0·6	867	+ 66	10	− 25	40	+ 1	9·87	252	+ 66	3·2	−0·6	29	1013
Western.																			
6. SCOTLAND, WEST ...	72	27	85·9	80·3	83·0	+ 0·6	638	+ 44	12	− 38	54	+ 8	11·94	305	− 2	2·3	−0·7	22	1009
7. ENGLAND, N.W.	75	25	86·6	81·1	83·8	+ 0·7	736	+ 67	10	− 24	48	+ 4	10·32	264	+ 37	2·3	−0·8	21	1010
8. ENGLAND, S.W.	72	27	87·6	82·2	84·8	+ 0·9	874	+107	5	− 21	47	+ 2	12·95	330	+ 75	2·6	−1·0	24	1012
9. IRELAND, NORTH ...	73	32	86·5	81·2	83·8	+ 1·1	739	+116	11	− 30	57	+ 7	11·15	284	+ 49	1·9	−1·1	18	1007
10. IRELAND, SOUTH ...	77	29	87·5	82·2	84·8	+ 1·3	862	+142	2	− 33	58	+13	14·59	371	+141	2·1	−1·4	20	1010
11. ENGLISH CHANNEL ...	73	38	88·3	84·0	86·1	+ 0·4	1041	+ 50	0	− 1	49	0	11·32	287	+ 64	3·6	−0·8	32	1012

THE YEAR.—Aggregates, &c., for the Period of 46 Weeks, January 2nd to November 18th, 1916.

0. SCOTLAND, NORTH ..	81	20	84·1	78·4	81·1	+ 0·1	2004	− 47	471	−157	219	+ 4	49·30	1251	+125	2·8	−0·6	22	1009
Eastern.																			
1. SCOTLAND, EAST ...	82	7	84·8	77·7	81·1	− 0·1	2143	−155	655	− 59	195	+17	36·42	926	+246	3·3	−0·7	26	1010
2. ENGLAND, N.E.	84	20	86·0	79·1	82·4	+ 0·4	2701	+127	405	−117	173	+12	24·17	616	+ 61	3·7	−0·6	29	1011
3. ENGLAND, EAST ...	83	24	86·8	79·6	83·0	+ 0·3	3001	+ 28	370	−206	172	+16	24·74	627	+101	3·9	−0·8	31	1013
4. MIDLAND COUNTIES ...	84	21	86·9	79·0	82·8	+ 0·4	2952	+ 65	448	−154	169	+15	26·23	669	+ 81	3·6	−0·6	29	1013
5. ENGLAND, S.E.	86	15	87·4	80·2	83·6	+ 0·2	3261	+ 41	304	−112	166	+17	29·17	742	+148	4·3	−0·4	34	1013
Western.																			
6. SCOTLAND, WEST ...	83	17	85·6	79·1	82·2	+ 0·2	2549	+ 52	377	− 98	202	+16	40·19	1026	− 13	3·8	−0·3	30	1011
7. ENGLAND, N.W.	83	8	86·0	79·9	82·8	+ 0·3	2815	+ 79	320	−100	181	+ 9	32·44	826	+ 60	3·7	−0·4	29	1012
8. ENGLAND, S.W.	84	17	86·9	80·4	83·4	+ 0·2	3131	+ 72	284	− 43	181	+11	38·38	982	+149	4·3	−0·3	34	1013
9. IRELAND, NORTH ...	81	18	85·7	79·5	82·5	+ 0·1	2655	+ 45	345	− 41	217	+15	35·70	913	+ 69	3·4	−0·4	27	1011
10. IRELAND, SOUTH ...	85	20	86·9	80·4	83·5	+ 0·3	3148	+142	246	− 48	223	+43	39·57	1001	+131	3·9	−0·4	31	1013
11. ENGLISH CHANNEL ...	80	30	87·3	82·2	84·6	+ 0·1	3629	+ 52	85	− 25	180	− 2	31·20	789	+ 94	5·1	−0·6	41	1014
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics, South Kensington, S.W., November 23rd, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 47. SUNDAY, NOVEMBER 19TH, TO SATURDAY, NOVEMBER 25TH, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE FORTY-SEVENTH WEEK OF 1916.

The unsettled conditions were maintained throughout this period. As will be seen from Table IV. strong winds from the East were met with early in the week and from the West later. Rain was of very frequent occurrence in all districts, and occasionally there were some heavy falls locally. On the 19th the amounts ranged up to 26 mm. at Eastbourne and Hastings. On the 20th 31 mm. fell at Eastbourne; on the 23rd 26 mm. at Glencarron and 31 mm. at Fort William; and on the 24th 25 mm. at Eskdalemuir and 27 mm. at Rothesay. There were a few showers of snow or hail locally on various days. For the whole week the precipitation was in excess of the normal, the percentage of the average ranging from 109 in England South-West, and 117 in Scotland West to 170 in the English Channel, and 225 in Scotland East. At first temperature was rather low, the day maxima in many places being as low as 276 a. to 278 a., and both on the 19th and 22nd there were a number of morning minima between 269 a. and 272 a. Afterwards there was a considerable increase, and on the 24th many afternoon readings were from 287 a. to 288½ a. The week drew to a close with some night values as high as 283 a. to 284 a. The average temperatures for the week were normal for Ireland South and the English Channel, and elsewhere rather above the normal, an excess of more than 1 a. being found in Scotland North and East. Bright sunshine was more than an hour per day less than the normal in Ireland North, but in other districts the differences were much smaller. A thunderstorm visited Bognor and Brighton on the 21st. Crieff reported an aurora on the 24th, and Aberdeen and Edinburgh on the 25th. The temperature of the sea surface water along our coasts was about 2 a. higher than the mean temperature on the land. The coldest water (280 a.) was found near Berwick, the warmest (284 a.) off Plymouth.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.
		m/s		m/s		m/s		m/s		m/s		m/s		m/s		m/s
South	5	6·3	5	7·2	5	4·1	6	3·3	4	6·0	3	5·4	5	4·6	4	5·6
North	1	2·9	2	1·9	1	0·7	1	0·8	3	2·9	3	6·2	1	4·9	3	3·7
West	3	4·3	4	4·8	6	2·8	7	2·3	5	6·1	6	7·0	5	7·2	4	6·7
East	3	10·6	2	6·1	1	8·7	0	—	2	6·3	0	—	1	6·4	1	1·4
Calm	0	—	0	—	0	—	0	—	0	—	0	—	0	—	0	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c. is printed on a separate sheet. *See below*, Note (1).

	DISTRICTS OF THE BRITISH ISLES.											
	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel
Comparison with normal for the time of year ... Warmth ...	Unusual	Unusual	Unusual	Unusual	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
Rainfall ...	Heavy	Very heavy	Moderate	Heavy	Moderate	Heavy	Moderate	Heavy	Moderate	Heavy	Heavy	Heavy
Sunshine ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Scanty	Moderate	Scanty	Scanty	Moderate	Moderate

II.—THE AUTUMN SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

AUTUMN. 12 weeks from Sept. 3rd, 1916. Warmth ...	5, 4, 3	4, 6, 2	6, 5, 1	5, 4, 3	5, 6, 1	5, 5, 2	4, 6, 2	5, 5, 2	4, 8, 0	5, 6 1	4, 7, 1	3, 7, 2
Rainfall ...	4, 3, 5	5, 6, 1	4, 4, 4	4, 5, 3	3, 6, 3	5, 4, 3	3, 6, 3	5, 3, 4	5, 3, 4	5, 6, 1	6, 4, 2	5, 5, 2
Sunshine ...	1, 6, 5	2, 7, 3	0, 8, 4	0, 7, 5	1, 6, 5	1, 7, 4	0, 3, 9	1, 4, 7	0, 4, 8	0, 4, 8	0, 4, 8	1, 5, 6

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.) and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.

Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(9742—19.) Wt. 79a—736. 450. 11/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts	Lowest Reading.	Mean.	Deviation from Average.	Mean.	Deviation from Average.	
	Ft.	°F.	—	°F.	—	°F.	°F.	°F.	°F.	—	in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.																							
p Baltasound	*31*	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	*Baltasound.*
a Lerwick	54	51	23, 24	40	19-21	47·9	42·1	45·0	+ 2·5	7	2·05	52	—	0·7	- 0·4	10	*	*	*	*	*	*	Deerness.
a Stornoway	51	52	23, 34	39	19th	47·3	42·1	44·7	+ 2·2	6	1·69	43	+ 9	1·0	- 0·3	14	*	*	*	*	*	*	Stornoway.
a Castlebay, Barra Isd.	*37*	*53*	*23, 24*	*40*	*19, 21*	*48·2*	*43·6*	*46·5*	*+ 0·8*	*7*	*1·42*	*36*	—	*0·4*	—	*5*	*	*	*	*	*	*	*Castlebay.*
b. Mainland. *a* Wick	81	52	24th	37	19, 22	47·6	39·3	43·5	+ 1·9	6	0·72	18	+ 1	*	*	*	*	*	*	*	*	*	
p Strathpeffer	200	52	23, 24	36	20, 22	48·4	38·1	43·3	+ 2·7	4	1·34	34	+ 17	*	*	*	*	*	*	*	*	*	Strathpeffer.
p Glencarron	500	52	24th	37	20, 25	45·9	39·1	42·5	+ 2·1	6	2·34	59	+ 5	*	*	*	*	*	*	*	*	*	
p Fort Augustus	68	53	24th	37	25th	47·6	40·3	44·0	+ 2·8	6	1·76	45	+ 19	0·1	- 0·4	1	*	*	*	*	*	*	Fort Augustus.
p Fort William	171	54	24th	37	21st	47·7	40·0	43·9	+ 1·5	7	3·09	78	+ 29	*	*	*	*	*	*	*	*	*	
1. SCOTLAND, E.																							
p Gordon Castle	101	56	24th	36	20th	48·3	38·7	43·5	+ 1·8	6	0·75	19	+ 5	1·0	—	13	1	19	41·9	+1·9	45·3	+0·4	Crathes.
a Nairn	82	53	23, 24	35	22nd	46·7	38·7	42·7	+ 1·9	5	0·67	17	+ 5	*1·0*	—	*14*	*	*	*	*	*	*	*Gordon Castle.*
a Aberdeen	46	56	24th	33	22, 23	48·6	38·3	43·5	+ 1·9	4	0·55	14	- 3	0·8	—	11	*	*	*	*	*	*	Nairn.
a Balmoral	930	52	24th	30	22nd	43·6	34·1	38·9	+ 1·1	5	2·00	51	+ 29	1·1	- 0·6	15	1	26	*	*	46·3	+1·4	Aberdeen.
p Crieff	432	53	24th	33	22nd	46·0	36·1	41·1	+ 0·3	5	2·55	65	+ 38	*	*	*	2	27	*	*	*	*	Balmoral.
														1·1	—	14	*	*	*	*	*	*	Balruddery.
a Leith	18	57	23rd	37	19, 22	49·6	41·1	45·4	+ 2·6	5	1·06	27	+ 16	*	*	*	*	*	*	*	*	*	
a West Linton	769	53	24th	30	22nd	45·6	36·9	41·3	+ 4·3	5	1·62	41	—	*0·5*	—	*7*	2	24	*	*	*	*	*West Linton.*
p Marchmont	498	53	23rd	32	21st	46·6	37·4	42·0	+ 1·7	6	2·08	53	+ 35	1·0	- 0·5	13	1	28	*	*	*	*	Marchmont.
a Edinburgh	*441*	*56*	*24th*	*37*	*19, 20*	*48·9*	*40·3*	*44·6*	—	*5*	*1·29*	*33*	—	1·1	—	14	0	32	*	*	*	*	Edinburgh.
6. *a.* SCOTLAND, W.																							
a Poltalloch	132	52	23rd	—	—	46·0	—	—	—	7	1·86	47	+ 15	*	*	*	*	*	*	*	*	*	
p Glasgow Observatory	180	54	24th	38	20, 21, 25	47·6	40·7	44·2	+ 2·0	7	1·14	29	+ -	0·4	- 0·3	5	1	30	*	*	*	*	Glasgow.
p Rothesay	170	54	24th	37	21, 22, 25	47·6	39·4	43·5	+ 0·3	7	1·83	47	+ 17	*0·3*	—	*4*	1·0	30	43·0	*	47·6	+1·9	*Rothesay.*
a Kilmarnock	90	54	23, 24	31	21st	47·9	40·1	44·0	+ 2·0	7	1·15	29	—	*0·3*	—	*4*	*	*	43·5	*	48·1	*	*Kilmarnock.*
a Colmonell	170	55	24th	32	21st	48·3	39·4	43·9	+ 1·9	7	1·45	37	+ 5	*	*	*	1	29	*	*	*	*	
a Dumfries	160	56	24th	33	22nd	48·4	39·1	43·8	+ 1·8	6	0·95	24	+ 1	*0·8*	—	*10*	2	26	42·4	*	47·2	*	*Dumfries.*
Eskdalemuir	*794*	*52*	*24th*	*29*	*22nd*	*45·9*	*34·9*	*40·4*	—	*7*	*2·21*	*56*	—	*0·7*	—	*9*	*	*	*	*	*	*	*Eskdalemuir.*
p Cally, Gatehouse	120	51	24th	29	21st	46·7	36·4	41·6	- 0·3	6	1·12	28	- 4	*	*	*	*	*	*	*	*	*	
b. I. OF MAN. *p* Douglas	277	54	24th	37	19th	48·7	41·7	45·2	+ 0·5	7	1·52	39	+ 11	1·5	- 0·4	19	0	33	*	*	*	*	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	56	23, 24	35	19, 22	50·3	39·6	45·0	+ 3·0	6	1·20	31	+ 12	2·2	—	28	2	28	41·1	+2·8	45·2	+1·7	Cockle Park.
a Tynemouth	71	59	24th	36	22nd	49·4	40·9	45·2	+ 2·4	4	1·14	29	+ 17	*	*	*	*	*	*	*	*	*	Tynemouth.
p Durham	336	56	24th	29	22nd	47·1	37·4	42·3	+ 0·9	6	0·81	21	+ 8	1·8	+ 0·2	23	1	23	*	*	*	*	Durham.
a North *p* Rounton	249	56	24th	31	22nd	47·1	37·7	42·4	+ 1·0	6	0·50	13	+ 1	*	*	*	2	23	42·2	*	*	*	Rounton.
a West Witton	*605*	*54*	*23, 24*	*32*	*19, 22*	*47·0*	*37·1*	*42·1*	—	*6*	*1·37*	*35*	—	*	*	*	3	26	41·1	*	45·8	*	*West Witton.*
p Scarborough†	100	56	23rd	34	22nd	48·9	39·7	44·3	+ 1·0	3	0·52	13	- 1	1·8	—	22	*	*	*	*	51·1	*	Scarborough.
p York	56	60	24th	26	22nd	48·6	37·4	43·0	+ 0·6	4	0·32	8	- 4	1·1	- 0·1	14	*	*	43·9	+0·9	48·7	+0·8	York.
b. South *a* Spurn Head	26	57	24th	35	19, 22	48·1	38·0	43·1	- 0·6	5	0·55	14	+ 4	*1·2*	—	*15*	*	*	*	*	*	*	*Spurn Head.*
a Lincoln	58	58	24th	30	22nd	49·2	36·4	42·3	+ 0·6	5	0·57	14	+ 3	*	*	*	*	*	41·4	+0·5	48·9	+1·3	Lincoln.
a Fulbeck	180	58	24th	31	22nd	49·7	35·4	42·6	+ 1·4	6	0·61	15	+ 4	2·1	—	28	2	25	42·1	+0·7	48·8	+0·3	Rauceby.
														1·9	—	23	*	*	*	*	*	*	Skegness.
3. ENGLAND, E.																							
p Cromer	196	60	24th	34	21st	50·9	37·4	44·2	+ 2·0	6	0·50	13	—	2·2	—	27	*	*	*	*	*	*	Cromer.
p Little Massingham	280	55	24th	30	22nd	47·1	35·6	41·4	- 0·3	5	0·87	22	+ 8	1·8	0·0	22	2	29	*	*	*	*	Lit. Massingham.
a, North *a* Yarmouth	13	57	24th	33	22nd	50·6	37·6	44·1	+ 1·0	3	0·67	17	+ 4	1·9	—	23	*	*	43·3	+2·0	49·7	+1·6	Yarmouth.
a Norwich	93	57	24th	32	21, 22	49·6	36·7	43·2	+ 0·8	6	0·54	14	—	*1·8*	—	*22*	4	24	41·8	*	*	*	*Norwich.*
a Geldeston	37	58	24th	31	22nd	51·4	36·0	43·7	+ 0·7	7	0·63	16	+ 3	1·7	- 0·2	20	*	*	*	*	*	*	Geldeston.
b. South *p* Cambridge	41	58	24th	28	22nd	50·7	35·7	43·2	+ 0·9	5	0·95	24	+ 13	1·6	- 0·2	19	5	20	42·3	+0·2	48·9	+0·5	Cambridge.
a Clacton-on-Sea	54	52	21, 23	32	23rd	49·1	37·7	43·4	- 0·2	5	0·56	14	—	2·2	—	26	1	30	43·9	-2·0	50·2	+0·6	Clacton.
a Rothamsted	424	55	24th	29	21st	48·7	34·9	41·8	- 0·2	6	0·85	22	+ 7	1·9	+ 0·1	23	4	23	41·8	*	*	*	Rothamsted.
p Tottenham	51	58	24th	30	22nd	50·0	38·4	44·2	+ 0·7	5	1·04	26	—	1·2	—	14	2	28	*	*	49·5	-0·1	Tottenham.
4. MIDLAND COUNTIES.																							
a North *a* Harrogate	479	56	24th	32	19th	47·1	37·3	42·2	+ 1·0	7	0·68	17	+ 1	1·2	—	15	2	24	42·3	+0·4	45·7	+0·9	Harrogate.
p Buxton	*987*	*54*	*24th*	*31*	*19th*	*44·6*	*36·4*	*40·5*	*+ 0·7*	*5*	*0·71*	*18*	*- 10*	*2·0*	—	*25*	2	26	38·7	-1·3	45·9	-1·0	*Buxton.*
														1·8	—	22	2	29	42·0	+0·2	48·1	+0·5	Sheffield.
a Bawtry	65	59	24th	27	22nd	49·0	35·9	42·5	+ 0·7	4	0·54	14	+ 3	1·5	+ 0·1	19	3	20	41·6	*	46·8	*	Worksop.
a Nottingham	82	58	24th	29	22nd	49·3	35·0	42·2	0·0	5	0·72	18	+ 7	1·2	—	15	2	26	40·7	+0·5	46 3	+0·1	Nottingham.
b, East *p* Birmingham, Edgbsn.	535	58	24th	32	19th	47·6	37·3	42·5	+ 0·4	4	0·78	20	+ 7	1·7	—	20	3	28	42·0	-0·4	48·5	+0·3	Birmingham.
a Raunds	203	58	24th	27	22nd	49·7	33·9	41·8	+ 0·1	5	0·78	20	—	*2·1*	—	*25*	6	18	43·9	*	51·1	*	*Raunds.*
p Oxford	208	57	24th	30	22nd	48·6	36·7	42·7	0·0	5	0·65	17	+ 3	1·6	- 0·2	19	2	23	*	*	*	*	Oxford
c. West *a* Cheadle	646	53	23rd	32	20th	45·3	35·9	40·6	- 0·4	4	0·68	17	0	*	*	*	5	24	*	*	*	*	Cheadle.
p Shrewsbury	191	58	24th	28	19th	50·9	32·6	41·8	- 1·3	3	0·63	16	—	*	*	*	4	24	*	*	*	*	Shrewsbury.
a Hereford§	291	57	24th	30	22nd	47·6	35·3	41·5	- 1·0	4	0·44	11	- 3	2·2	—	*27*	6	21	40·8	*	47·2	*	*Malvern.§*
a Bath	66	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	56	24th	29	22nd	48·9	34·6	41·8	+ 0·4	6	0·75	19	0	1·1	—	13	3	27	45·0	+1·9	51·4	+1·5	Worthing.
a Margate	53	56	24, 25	33	19th	51·6	39·4	45·5	+ 1·1	6	0·75	19	+ 6	1·1	- 0·4	13	3	23	42·9	*	49·7	*	Marlborough.
a Wisley, Surrey	150	57	24th	30	22nd	50·3	36·9	43·6	- 0·1	5	0·66	17	—	1·2	- 0·7	14	0	32	44·7	0·0	49·8	+1·8	Margate.
p Salisbury (Wilton)	180	57	24th	30	22, 23	49·4	33·7	41·6	- 0·9	4	0·74	19	- 2	1·7	—	20	4	24	43·0	+0·6	48·6	+0·3	Wisley.
a Tunbridge Wells	354	54	24, 25	31	19, 22	50·1	36·6	43·4	+ 0·5	4	0·88	22	+ 2	*	*	*	4	24	42·4	*	*	*	Salisbury.
														1·3	- 0·8	15	3	23	44·6	+2·9	49·9	*	Tunbridge Wells.
a Dungeness	21	54	24, 25	33	19, 22, 23	51·0	40·0	45·5	+ 0·2	5	1·30	33	+ 19	*	*	*	*	*	*	*	*	*	
p Hastings	178	54	24, 25	33	19th	50·9	40·3	45·6	+ 0·6	6	1·48	38	+ 20	1·3	- 0·9	15	0	31	44·4	*	50·7	*	Hastings.
p Southampton	64	55	24, 25	30	22nd	49·4	37·6	43·5	- 1·1	5	0·63	16	- 3	1·4	- 0·5	17	4	21	*	*	*	*	Southampton.
a Ventnor	59	54	24, 25	33	19th	50·9	41·9	46·4	- 0·8	6	0·70	18	- 1	1·2	- 0·9	14	*	*	*	*	*	*	Ventnor.
LONDON. *p* Kew Observatory	18	57	24th	30	21st	49·3	37·0	43·2	+ 0·2	5	0·68	17	+ 5	1·8	+ 0·3	21	3	25	41·7	-0·7	48·7	-0·2	Kew Obs.
a Westminster	*27*	*58*	*24th*	*31*	*21st*	*50·8*	*37·7*	*44·3*	*+ 0·9*	*5*	*0·67*	*17*	*+ 4*	*0·7*	*- 0·1*	*8*	2	28	*	*	*	*	*Westminster.*
a Greenwich	*155*	*58*	*24th*	*33*	*19, 21, 22*	*51·1*	*37·3*	*44·2*	*+ 0·8*	*5*	*0·89*	*23*	*+ 10*	*0·9*	*- 0·5*	*11*	3	25	*	*	*	*	*Greenwich.*
a Hampstead	*450*	*55*	*24, 25*	*28*	*22nd*	*48·7*	*36·0*	*42 4*	—	*5*	*1·03*	*26*	—	*1·4*	—	*17*	6	18	*	*	*	*	*Hampstead.*
a Camden Square	*110*	*58*	*24th*	*32*	*22nd*	*49·9*	*37·3*	*43·6*	—	*5*	*0·93*	*24*	—	*1·0*	—	*12*	2	28	*	*	*	*	*Camden Square.*
7. *a*, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	52	23, 24	33	20th	47·0	39·0	43·0	+ 1·2	7	1·74	44	+ 19	2·2	—	27	*	*	*	*	*	*	Hoylake.
p Newton Rigg	559	55	24th	32	22nd	47·3	37·7	42·5	+ 2·2	6	1·58	40	+ 18	1·3	—	16	1	30	42·9	*	47·2	*	Aspatria.
p Stonyhurst	375	56	24th	31	22nd	47·6	38·3	43·0	+ 1·0	6	0·96	25	- 1	1·4	- 0·1	18	2	24	42·8	+1·3	46·8	+0·9	Newton Rigg.
p Blackpool	66	55	24, 25	36	19th	49·7	41·0	45·4	+ 2·1	6	1·26	32	+ 11	1·1	- 0·2	14	1	29	*	*	*	*	Stonyhurst.
a Southport	37	56	24, 25	34	19th	49·6	39·7	44·7	+ 1·6	5	1·03	26	+ 6	1·4	0·0	17	2	27	45·4	*	50·1	*	Blackpool.
a Liverpool (Bidston)	188	58	24th	33	19th	49·6	40·0	44·8	+ 2·1	4	0·75	19	+ 4	1·9	+ 0·6	23	1	28	40·9	+0·9	46·5	+0·8	Southport.
a Hawarden Bridge	22	59	24th	34	19th	51·1	40·1	45·6	+ 1·2	4	0·67	17	+ 4	*2·2*	—	*27*	1	30	*	*	*	*	*Liverpool.*
p Manchester (Whit. Pk.)	125	58	24th	35	22nd	48·9	39·7	44·3	+ 0·9	3	0·41	10	- 5	*0·4*	—	*5*	1	30	42·1	+1·3	49·5	+1·2	*Manchester (City)*
														1·3	*+ 0·8*	*16*	*	*	*	*	*	*	*„ (Whit. Park)*
b. NORTH WALES.																							
p Llandudno	71	?58	24th	36	22nd	51·1	42·3	46·7	+ 1·1	5	1·12	28	+ 10	1·4	- 0·3	17	*	*	*	*	*	*	Llandudno.
a Holyhead	15	56	24th	36	19th	50·6	43·1	46·9	+ 0·8	6	1·10	28	+ 3	*1·4*	—	*17*	*	*	*	*	*	*	*Holyhead.*
p Bettws-y-Coed	148	54	23-25	32	22nd	48·1	38·7	43·4	- 2·0	7	1·63	41	—	1·0	—	12	*	*	42·3	+0·2	48·0	+0·6	Bettws-y-Coed.
														1·0	—	12	*	*	*	*	*	*	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.				Mean for the Week.				Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.		Deviation from Normal.	Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														0·9	—	11	•	•	•	•	•	•	
a Llangammarch Wells	550	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	Aberystwyth.
a Pembroke	149	54	24th	34	19th	50·3	43·9	47·1	− 0·2	6	0·81	21	− 2	1·6	− 0·3	19	•	•	•	•	•	•	Llangammarch.
p Cardiff	202	56	24th	33	19th	48·9	39·6	44·3	+ 0·9	5	1·21	31	+ 7	*1·7*	—	*20*	2	28	43·7	+1·6	50·3	+2·0	Pembroke.
																							Cardiff.
b, ENGLAND, S.W.																							
a Clifton	229	58	24th	33	19, 20	50·6	38·1	44·4	+ 0·3	6	0·69	18	− 1	*1·3*	—	*15*	1	29	•	•	•	•	*Clifton.*
a Shaftesbury	722	53	23, 24	29	19th	48·1	37·0	42·6	− 0·2	6	0·50	13	− 8	•	•	•	•	•	42·3	•	49·2	•	Shaftesbury.
a Arlington	613	54	23, 24	31	19th	48·3	38·0	43·2	− 0·5	7	1·49	38	+ 4	•	•	•	•	•	•	•	•	•	Arlington.
a *Newquay*	*190*	*56*	*24th*	*33*	*19th*	*51·4*	*40·4*	*45·9*	− *1·8*	*6*	*1·12*	*28*	+ *8*	1·7	− 0·7	20	•	•	48·4	•	51·6	•	Newquay.
a Cullompton	202	58	24th	28	22nd	50·6	35·9	43·3	− 0·7	7	0·72	18	− 4	1·1	− 0·6	13	5	22	44·0	•	•	•	Cullompton.
a Portland Bill	19	55	24th	32	19th	51·1	44·0	47·6	+ 0·8	6	0·55	14	—	*1·7*	—	*20*	•	•	•	•	•	•	*Weymouth.*
p Plymouth	116	55	24th	30	22nd	50·3	41·0	45·7	− 0·8	6	0·61	16	− 6	1·6	− 0·4	19	•	•	44·8	− 0·8	50·7	•	Plymouth.
a Falmouth	167	55	24th	34	19th	51·1	40·1	45·6	− 2·0	7	1·75	45	+ 16	2·1	− 0·2	24	1	30	47·3	•	52·3	•	Falmouth.
9. IRELAND, N.																							
a, West .. { *a* Malin Head	208	52	23, 24	34	19th	47·6	40·6	44·1	− 0·4	7	1·57	40	+ 21	*0·4*	—	*5*	•	•	•	•	•	•	*Malin Head.*
{ *a* Blacksod Point ..	327	52	23, 24	33	19th	48·4	41·7	45·1	− 0·9	7	1·50	38	+ 6	•	•	•	•	•	•	•	•	•	•
{ *p* Markree Castle ..	122	55	24th	26	19th	49·3	36·0	42·7	− 0·2	7	1·74	44	+ 19	1·0	− 0·6	12	2	24	44·8	•	49·6	•	Markree Castle.
{ *a* Birr Castle	175	56	23, 24	31	19th	48·3	37·6	43·0	0·0	5	0·87	22	+ 3	*1·7*	− *0·3*	*21*	4	25	•	•	•	•	*Birr Castle.*
b, East .. { *p* Armagh	196	55	24th	34	19th	47·9	38·9	43·4	+ 0·6	6	1·19	30	+ 12	0·9	− 0·8	11	0	33	45·6	+3·2	49·5	+1·8	Armagh.
{ *a* Donaghadee	101	56	24th	35	22, 23	48·6	39·4	44·0	− 0·3	6	0·72	18	− 1	•	•	•	•	•	•	•	•	•	•
														•	•	•	2	27	45·0	+1·2	49·4	+1·3	Trinity Coll.
10. IRELAND, S.														1·9	− 0·3	23	1	23	•	•	•	•	Phœnix Park.
{ *p* Dublin, City	47	59	24th	36	19, 22	49·4	40·6	45·0	− 0·3	5	1·21	31	+ 15	•	•	•	0	31	•	•	•	•	Dublin City.
a, East .. { *a* Kilkenny	212	59	23, 24	28	22nd	49·3	36·7	43·0	− 0·3	6	0·89	23	+ 4	•	•	•	•	•	•	•	•	•	•
{ *a* Waterford	20	55	23, 24	30	22nd	48·9	38·3	43·6	− 1·1	5	0·66	17	− 7	•	•	•	•	•	•	•	•	•	•
{ *a* *Seskin, Carrick-on-Suir*	*541*	*56*	*23, 24*	*31*	*19th*	*49·1*	*38·0*	*43·6*	—	*5*	*1·02*	*26*	—	*3·2*	—	*39*	2	26	•	•	•	•	*Seskin.*
{ *a* Birr Castle	175	56	23, 24	31	19th	48·3	37·6	43·0	0·0	5	0·87	22	+ 3	1·7	− 0·3	21	4	25	•	•	•	•	Birr Castle.
{ *a* Foynes	50	56	23rd	30	19th	49·3	40·1	44·7	− 0·3	6	1·40	36	+ 11	•	•	•	•	•	•	•	•	•	•
b, West .. { *a* Cahir	199	55	23rd	28	22nd	49·1	37·6	43·4	− 1·2	5	1·13	29	—	•	•	•	•	•	•	•	•	•	•
{ *a* Killarney	174	57	23rd	27	19th	51·2	38·2	44·7	− 0·6	7	2·29	58	+ 22	•	•	•	•	•	•	•	•	•	•
{ *a* Valencia	30	56	23rd	31	19th	50·9	40·4	45·7	− 1·7	7	1·98	50	+ 15	2·3	+ 0·3	28	•	•	•	•	•	•	Valencia.
{ *a* Roche's Point ..	32	54	23, 24	34	19th	50·6	41·3	46·0	− 0·7	7	0·89	23	− 4	2·4	—	29	•	•	•	•	•	•	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	54	23, 24	37	19th	52·0	43·4	47·7	− 1·9	6	0·76	19	− 2	2·7	+ 0·3	31	•	•	•	•	•	•	Scilly.
a Jersey, St. Aubins ..	25	57	24th	38	19th	53·6	44·3	49·0	+ 0·9	6	1·85	47	+ 23	2·2	+ 0·2	25	•	•	•	•	•	•	St. Heliers.
a Guernsey (Villa Carey)	180	56	24th	39	19th	52·6	44·7	48·7	+ 0·2	6	1·47	37	+ 10	2·2	+ 0·3	25	0	35	46·8	− 0·9	51·8	− 0·2	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, November 25th, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Height. Above Ground.	Height. Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Gales, force 8 or more. Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	High Winds, forces 6 and 7. Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.	Date and Hour, G.M.T.	Highest Gust with Date and Time, G.M.T.
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.	m/s. d. h. m.
1. SCOTLAND, E.														
Dyce	305	75	115**	—	—	24, 25	3	64	82	19	0	—	12	29 24th 13 . 25
Aberdeen*	153	105	37 †	19th ‡	15	19, 20, 24, 25	33	33	73	14	0	E. by S.	18	29 19th 18 . 49
		52	†											
Edinburgh	485	39	31	24th	1	23 to 25	21	91	54	1	0	S.	18	27 24th 8 . 0
6 SCOTLAND, W.														
Eskdalemuir	825	50	22	23, 24	2	19, 22 to 25	48	61	37	20	0	SW. by S.	18	24th 11h. 29 24th 10 . 50
Paisley	188	81	52	—	—	24th	6	68	87	7	0	SW. by S.	12	24th 9h. 27 24th 11 . 8
2. ENGLAND, N.E.														
Alnwick Castle	340	70	17	—	—	19, 24	17	62	57	32	0	ESE.	13	19th 3h. 22 24th 11 . 52
South Shields	72	61	12	19th	10	19, 20, 24	30	58	59	11	0	ESE.	19	19th 1h. 26 19th 1 . 31
Spurn Head	66	40	‡	—	—	19, 25	20	78	58	9	3	SSE.	15	19th 15h. 19 19th 15 . 17
3. ENGLAND, E.														
Gorleston	52	42	‡	—	—	19, 20, 23, 24	39	47	9	0	73	—	17	19th 1h. 23 19th 1 . 07
Shoeburyness	103	90	‡	—	—	19, 23, 24	18	88	48	14	0	SW. by S.	14	24th 2h. 20 25th 18 . 25
4. MIDLAND COUNTIES.														
Benson	270	84	‡	—	—	23, 24	5	55	80	28	0	S. by W.	12	23rd 23h. 19 23rd 23 . 3
5. ENGLAND, S.E.														
Dover	271	40	‡	20, 24	4	19, 20, 23 to 25	52	42	1	1	68	—	17	24th 1h. 24 20th 7 . 14
Warlingham	642	33	‡	—	—	23, 24	2	54	78	34	0	—	12	24th 9h. 21 24th 9 . 20
Brighton	261	53	6	—	—	—	—	68	75	25	0	—	10	23rd 24h. 20 25th 17 . 52
Kew Observatory ..	82	65	6 †	—	—	—	—	64	80	24	0	SSW.	11	24th 10h. 17 24th 11 . 41
		22	†											
South Kensington§ ..	123	92	30	—	—	—	—	—	—	—	—	—	—	— — —
7. ENGLAND, N.W.														
Carnforth	246	56	23	—	—	—	—	43	93	32	0	—	11	24th 12h. 18 24th 12 . 2
Southport	80	62	48	24th	4	23 to 25	14	102	46	2	0	W. by S.	19	24th 14h. 25 24th 12 . 55
Holyhead*	60	40	‡	—	—	19, 22 to 25	59	90	19	0	0	WSW.	16	24th 13h. 24 24th 12 . 57
8. ENGLAND, S.W.														
Pendennis Castle§ ..	256	65	24	23rd	9	22 to 25	37	66	51	5	0	SSW.	21	23rd 19h. 28 25th 16 . 52
Plymouth	185	88	2	23rd	4	23, 25	13	63	64	24	0	—	18	23rd 20h. 23 23rd 19 . 53
Lyme Regis	556	61	‡	—	—	23 to 25	11	63	67	27	0	—	13	23rd 20h. 19 23rd 20 . 52
10. IRELAND, S.														
Quilty	100	40	‡	—	—	19, 20, 24, 25	32	80	6	0	50	—	15	25th 14h. 23 25th 9 39
Weaver Pt.	160	30	‡	—	—	—	—	—	—	—	—	—	—	— — —
11. ENGLISH CHANNEL.														
Scilly*	150	32	‡	25th	3	19 to 21, 23, 25	50	68	42	5	0	WNW.	18	25th 15h. 29 25th 16 . 38
		19												

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.

† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof. ‖ The Anemograph at S. Kensington was dismounted on November 9th.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

FORTY-SEVENTH WEEK—November 19th to November 25th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.				Sunshine.			Pressure Mean for the Week at M.S.L.
			Means of				Accumulated Number of Day-Degrees.											
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Number of Rain-Days.	Deviation from Normal.	Total Fall.	Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	54	36	81·6	77·5	79·6	+ 1·5	21	+ 6	5	− 16	6	+ 1	1·86	47	+ 14	0·6	−0·4	8	994
Eastern.																			
1. SCOTLAND, EAST ...	57	30	81·3	76·2	78·7	+ 1·1	20	+ 6	12	− 15	5	0	1·41	36	+ 20	1·0	−0·5	13	995
2. ENGLAND, N.E.	60	26	82·3	76·3	79·3	+ 0·7	27	+ 9	11	− 6	5	+ 1	0·69	18	+ 5	1·8	+0·1	23	998
3. ENGLAND, EAST ...	60	28	82·9	75·6	79·2	+ 0·8	31	+ 11	15	− 5	5	+ 1	0·73	19	+ 7	1·8	0·0	22	1002
4. MIDLAND COUNTIES ...	59	27	82·1	74·9	78·6	+ 0·4	18	0	18	− 5	5	+ 1	0·66	17	+ 4	1·5	−0·1	18	1001
5. ENGLAND, S.E.	57	29	83·1	76·2	79·7	+ 0·3	32	+ 6	12	− 2	6	+ 2	0·86	22	+ 7	1·3	−0·5	16	1003
Western.																			
6. SCOTLAND, WEST ...	56	29	81·8	77·2	79·5	+ 0·6	22	+ 2	7	− 8	7	+ 2	1·38	35	+ 5	1·0	−0·5	12	996
7. ENGLAND, N.W.	59	31	82·5	77·4	79·9	+ 0·8	26	+ 5	6	− 7	5	+ 1	1·11	28	+ 8	1·4	−0·1	17	998
8. ENGLAND, S.W.	58	28	82·9	77·3	80·2	+ 0·2	30	+ 1	6	− 5	6	+ 1	0·93	24	+ 2	1·5	−0·4	18	1002
9. IRELAND, NORTH ...	56	26	82·1	76·9	79·5	+ 0·3	25	+ 4	8	− 6	6	+ 1	1·27	32	+ 9	0·7	−1·1	8	995
10. IRELAND, SOUTH ...	59	27	82·8	76·9	79·8	− 0·1	29	0	8	− 4	6	+ 2	1·26	32	+ 9	2·1	+0·1	25	1000
11. ENGLISH CHANNEL ...	57	37	84·5	79·7	82·1	0·0	45	− 1	0	− 1	6	+ 1	1·36	34	+ 14	2·4	+0·2	27	1005

THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 12 Weeks, September 3rd to November 25th, 1916.

0. SCOTLAND, NORTH ...	71	24	84·6	79·3	81·9	+ 0·6	531	+ 19	22	− 70	59	− 1	17·19	438	+ 77	1·9	−0·5	18	1005
Eastern.																			
1. SCOTLAND, EAST ...	74	18	85·1	78·1	81·5	+ 0·3	548	+ 6	82	− 39	50	0	10·24	260	+ 61	2·6	−0·3	25	1007
2. ENGLAND, N.E.	74	24	86·3	79·7	82·9	+ 0·6	720	+ 78	37	− 27	47	+ 2	6·64	170	− 3	2·8	−0·4	26	1009
3. ENGLAND, EAST ...	71	24	87·0	80·2	83·5	+ 0·6	796	+ 63	32	− 43	45	+ 1	6·70	171	+ 9	3·0	−0·6	28	1012
4. MIDLAND COUNTIES ...	73	24	86·8	79·4	83·0	+ 0·7	757	+ 88	61	− 31	47	+ 4	7·81	199	+ 24	2·6	−0·5	25	1011
5. ENGLAND, S.E.	73	27	87·6	81·1	84·3	+ 0·6	899	+ 72	22	− 27	46	+ 3	10·73	274	+ 73	3·0	−0·6	28	1012
Western.																			
6. SCOTLAND, WEST ...	72	27	85·6	80·0	82·7	+ 0·5	660	+ 46	19	− 46	61	+10	13·32	340	+ 3	2·2	−0·7	21	1008
7. ENGLAND, N.W.	75	25	86·3	80·8	83·4	+ 0·6	762	+ 72	16	− 31	53	+ 5	11·43	292	+ 45	2·3	−0·7	21	1009
8. ENGLAND, S.W.	72	27	87·2	81·8	84·4	+ 0·8	904	+108	11	− 26	53	+ 3	13·88	354	+ 77	2·5	−1·0	23	1011
9. IRELAND, NORTH ...	73	26	86·1	80·9	83·4	+ 1·0	764	+120	19	− 36	63	+ 8	12·42	316	+ 58	1·8	−1·1	17	1006
10. IRELAND, SOUTH ...	77	27	87·1	81·7	84·4	+ 1·2	891	+142	10	− 37	64	+15	15·85	403	+150	2·1	−1·3	20	1009
11. ENGLISH CHANNEL ...	73	37	88·0	83·6	85·7	+ 0·3	1086	+ 49	0	− 2	55	+ 1	12·59	318	+ 75	3·5	−0·7	32	1012

THE YEAR.—Aggregates, &c., for the Period of 47 Weeks, January 2nd to November 25th, 1916.

0. SCOTLAND, NORTH ...	81	20	84·1	78·4	81·1	+ 0·2	2025	− 41	476	−173	225	+ 5	51·16	1298	+139	2·7	−0·6	21	1009
Eastern.																			
1. SCOTLAND, EAST ...	82	7	84·7	77·7	81·1	0·0	2163	−149	667	− 74	200	+17	37·83	962	+266	3·3	−0·6	26	1009
2. ENGLAND, N.E.	84	20	86·0	79·1	82·4	+ 0·5	2728	+136	416	−123	178	+13	24·86	634	+ 66	3·6	−0·7	29	1011
3. ENGLAND, EAST ...	83	24	86·7	79·5	83·0	+ 0·4	3032	+ 39	385	−211	177	+17	25·47	646	+108	3·9	−0·8	31	1012
4. MIDLAND COUNTIES ...	84	21	86·8	78·9	82·7	+ 0·4	2970	+ 65	466	−159	174	+16	26·89	686	+ 85	3·6	−0·5	28	1012
5. ENGLAND, S.E.	86	15	87·3	80·1	83·5	+ 0·2	3293	+ 47	316	−114	172	+19	30·03	764	+155	4·3	−0·4	34	1013
Western.																			
6. SCOTLAND, WEST ...	83	17	85·5	79·1	82·2	+ 0·3	2571	+ 54	384	−106	209	+18	41·57	1061	− 8	3·7	−0·3	30	1010
7. ENGLAND, N.W.	83	8	85·9	79·8	82·8	+ 0·3	2841	+ 84	326	−107	186	+10	33·55	854	+ 68	3·7	−0·4	29	1012
8. ENGLAND, S.W.	84	17	86·9	80·3	83·4	+ 0·2	3161	+ 73	290	− 48	187	+12	39·31	1006	+151	4·2	−0·4	34	1013
9. IRELAND, NORTH ...	81	18	85·6	79·5	82·4	+ 0·1	2680	+ 49	353	− 47	223	+16	36·97	945	+ 78	3·3	−0·5	26	1010
10. IRELAND, SOUTH ...	85	20	86·8	80·3	83·4	+ 0·3	3177	+142	254	− 52	229	+45	40·83	1033	+140	3·9	−0·3	31	1013
11. ENGLISH CHANNEL ...	80	30	87·3	82·1	84·6	+ 0·1	3674	+ 51	85	− 26	186	− 1	32·47	820	+105	5·1	−0·5	40	1014
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics, South Kensington, S.W., November 30th, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 189

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 48. SUNDAY, NOVEMBER 26TH, TO SATURDAY, DECEMBER 2ND, 1916.

Price 6d., Post free 7d.
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I.—THE FORTY-EIGHTH WEEK OF 1916.

The most striking feature of the week was the absence of rainfall. It will be seen in the summary tables given below that in nine out of the 12 districts the rainfall was light or very light; at many individual stations the fall was either zero or only amounted to one or two millimetres for the week. Over all the east of the country the measurements of bright sunshine did not depart widely from the normal values, but in the west there were greater variations, − 0·8 hr. per day in Ireland North, + 1·0 hr. in England South-West and + 1·7 hr. in the English Channel. The values ranged from 3·7 hrs. per day in the English Channel to 0·7 hr. per day in Scotland North and Scotland West. Sea temperatures ranged from 283·5 a. off the South-West coast to 279·5 a. near Berwick, a fall of half a degree since the preceding week being general. As will be seen from Table III. the mean temperature was well below the normal in nearly all parts of the country; the cold was severe in London, the mean for Hampstead being 275 a. as compared with 281 a. at Holyhead and 279 a. at Lerwick in the Shetland Islands. The greatest departures from the mean occurred in the extreme north and south, + 0·5 a. at Lerwick, and − 4 a. at Jersey. Night frosts occurred in almost all parts. Aurora was observed at several northern stations on Wednesday night 29th–30th.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.
		m/s		m/s		m/s		m/s		m/s		m/s		m/s		m/s
South	—	—	6	4·5	4	2·7	4	2·1	5	4·7	5	3·4	4	3·7	4	3·5
North	—	—	1	2·5	2	1·9	3	1·4	2	5·9	2	8·0	2	1·5	2	5·6
West	—	—	6	3·2	5	2·4	5	1·3	5	5·4	4	3·7	6	3·9	3	1·9
East	—	—	1	0·9	2	5·9	2	2·7	1	1·1	3	4·2	0	—	2	1·7
Calm	—	—	0	—	0	—	0	—	0	—	0	—	0	—	1	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c. is printed on a separate sheet. *See below*, Note (1).

DISTRICTS OF THE BRITISH ISLES.

	Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
	0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel
Comparison with normal for the time of year ... Warmth ...	Moderate	Moderate	Deficient	Deficient	Deficient	Deficient	Moderate	Moderate	Deficient	Moderate	Moderate	Deficient
Rainfall ...	Moderate	Moderate	Light	Light	Very light	Very light	Moderate	Light	Very light	Light	Light	Light
Sunshine ...	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Scanty	Moderate	Abundant	Scanty	Scanty	Abundant

II.—THE AUTUMN SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

AUTUMN. 13 weeks from Sept. 3rd, 1916. Warmth ...	5, 5, 3	4, 7, 2	6, 5, 2	5, 4, 4	5, 6, 2	5, 5, 3	4, 7, 2	5, 6, 2	4, 8, 1	5, 7, 1	4, 8, 1	3, 7, 3
Rainfall ...	4, 4, 5	5, 7, 1	4, 4, 5	4, 5, 4	3, 6, 4	5, 4, 4	3, 7, 3	5, 3, 5	5, 3, 5	5, 6, 2	6, 4, 3	5, 5, 3
Sunshine ...	1, 7, 5	2, 8, 3	0, 9, 4	0, 8, 5	1, 7, 5	1, 8, 4	0, 3, 10	1, 5, 7	1, 4, 8	0, 4, 9	0, 4, 9	2, 5, 6

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.) and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(9798—19.) Wt. 79a—736. 450. 12/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts	Lowest Reading.	Mean.	Deviation from Average.	Mean.	Deviation from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.																							
p Baltasound	*31*	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	*Baltasound.*
a, Islands.. *a* Lerwick	54	50	28th	35	27, 28	46·6	39·1	42·9	+ 1·0	7	1·46	37	—	0·3	- 0·6	5	•	•	•	•	•	•	Deerness.
a Stornoway	51	51	27, 28	35	27th	46·9	37·7	42·3	+ 0·5	7	1·85	42	+ 8	0·8	- 0·4	12	•	•	•	•	•	•	Stornoway.
a Castlebay, Barra Isd.	*37*	*52*	*28th*	*36*	*27th*	*48·1*	*40·9*	*44·5*	*- 0·3*	*7*	*1·22*	*31*	—	*0·5*	—	*7*							*Castlebay.*
a Wick	81	51	28th	33	28th	46·3	36·3	41·3	+ 0·3	5	0·53	13	- 4	•	•	•	•	•	•	•	•	•	
b, Main- *p* Strathpeffer	200	53	28th	30	30th	46·6	33·0	39·8	0·0	4	0·48	12	- 6	•	•	•	•	•	•	•	•	•	Strathpeffer.
land. *p* Glencarron	500	49	28th	33	26, 27, 29	44·7	34·3	39·5	- 0·4	7	2·40	61	+ 6	•	•	•	•	•	•	•	•	•	
p Fort Augustus..	68	52	28th	31	27, 30	46·3	35·4	40·9	+ 0·3	7	1·18	30	+ 3	1·0	+ 0·7	14	•	•	•	•	•	•	Fort Augustus.
p Fort William	171	50	28th	34	30th	46·1	37·3	41·7	- 0·3	7	2·29	58	+ 7	•	•	•	•	•	•	•	•	•	
1. SCOTLAND, E.																							
p Gordon Castle	101	53	28th	34	27, 30	46·7	35·7	41·2	+ 0·3	3	0·70	18	+ 4	1·0	—	14	5	19	40·3	+1·3	44·3	+1·2	Crathes.
a Nairn	82	52	28th	30	30th	45·7	34·3	40·0	0·0	5	0·51	13	+ 1	*0·3*	—	*4*	•	•	•	•	•	•	*Gordon Castle.*
a Aberdeen	46	51	28, 29	33	28, 30	45·9	35·7	40·8	- 0·2	4	1·06	27	+ 10	0·6	—	9	•	•	•	•	•	•	Nairn.
a Balmoral	930	48	28th	24	28th	41·1	30·1	35·6	- 1·6	5	0·59	15	- 6	0·9	- 0·7	13	3	27	•	•	45·2	+1·4	Aberdeen.
p Crieff	432	49	29th	30	27th	43·9	32·3	38·1	- 2·0	6	0·40	10	- 16	•	•	•	6	20	•	•	•	•	Balmoral.
														0·9	—	12	•	•	•	•	•	•	Balruddery.
a Leith	18	51	28, 29	33	27, 28	46·6	37·3	42·0	- 0·1	5	0·37	9	- 2	•	•	•	•	•	•	•	•	•	
a West Linton	769	48	29th	26	28th	43·7	31·4	37·6	+ 0·5	5	0·59	15	—	*1·0*	—	*14*	6	20	•	•	•	•	*West Linton.*
p Marchmont	498	48	28, 29	28	2nd	44·9	33·6	39·3	- 0·3	5	0·50	13	- 4	1·5	+ 0·1	21	5	26	•	•	•	•	Marchmont.
a Edinburgh	*441*	*50*	*29th*	*32*	*27th*	*45·9*	*37·7*	*41·8*	—	*4*	*0·33*	*8*	—	1·3	—	18	2	28	•	•	•	•	Edinburgh.
6. *a*, SCOTLAND, W.																							
a Poltalloch	132	48	28th	—	—	44·7	—	—	—	6	1·24	31	- 1	•	•	•	•	•	•	•	•	•	
p Glasgow Observatory	180	50	28th	33	27th	45·6	37·6	41·6	- 0·1	5	0·60	15	- 7	0·8	+ 0·2	11	4	22	•	•	•	•	Glasgow.
p Rothesay	170	50	28, 29	34	27th	46·3	38·0	42·2	- 0·4	6	1·00	25	- 5	*0·9*	—	*12*	2	27	42·3	•	46·8	+1·9	*Rothesay.*
a Kilmarnock	90	49	28, 29	24	27th	46·6	34·9	40·8	- 0·9	7	0·71	18	—	*1·3*	—	*18*	•	•	42·3	•	47·1	•	*Kilmarnock.*
a Colmonell	170	50	28-30	35	26th	47·3	37·6	42·5	+ 0·6	6	0·61	15	- 16	•	•	•	1	29	•	•	•	•	
a Dumfries	160	51	29th	30	27, 28	45·9	36·3	41·1	- 0·3	5	0·71	18	- 5	*1·4*	—	*18*	4	22	42·2	•	46·3	•	*Dumfries.*
Eskdalemuir	*794*	*48*	*29th*	*33*	*28th*	*43·6*	*32·4*	*38·0*	—	*6*	*1·38*	*35*	—	*0·9*	—	*12*	•	•	•	•	•	•	*Eskdalemuir.*
p Cally, Gatehouse	120	50	29th	26	27th	46·3	36·3	41·3	0·0	5	0·84	21	- 10	•	•	•	•	•	•	•	•	•	
b. I. OF MAN. *p* Douglas	277	51	29th	35	27th	48·0	40·0	44·0	- 0·1	6	1·35	34	+ 6	0·5	- 1·2	7	1	27	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	53	29th	30	28, 2	46·0	36·1	41·1	- 0·1	6	0·41	10	- 8	1·4	—	19	4	26	39·8	+2·0	44·4	+2·0	Cockle Park.
a Tynemouth	71	52	29th	30	2nd	44·9	36·1	40·5	- 1·6	2	0·31	8	- 4	•	•	•	•	•	•	•	•	•	Tynemouth.
p Durham	336	52	29th	27	28th	45·0	33·6	39·3	- 0·8	3	0·07	2	- 10	1·5	0·0	20	5	21	•	•	•	•	Durham.
a North .. *p* Rounton	249	51	29th	27	27, 28	44·0	32·9	38·5	- 1·9	2	0·04	1	- 10	•	•	•	5	20	41·3	•	•	•	Rounton.
a West Witton	*605*	*49*	*28, 29*	*26*	*28th*	*43·1*	*34·7*	*38·9*	—	*3*	*0·08*	*2*	—	•	•	•	5	21	40·9	•	44·7	•	*West Witton.*
p Scarborough†	100	50	29th	30	28, 2	45·4	34·6	40·0	- 2·4	1	0·22	6	- 8	1·5	—	20	•	•	•	•	50·1	•	Scarborough.
p York	56	53	29th	28	28th	44·9	33·7	39·3	- 2·2	0	0·00	0	- 11	1·4	+ 0·4	18	•	•	42·9	+1·0	47·5	+1·0	York.
a Spurn Head	26	49	29th	31	1, 2	43·4	34·7	39·1	- 3·8	1	0·28	7	- 3	*0·7*	—	*9*	•	•	•	•	•	•	*Spurn Head.*
b, South .. *a* Lincoln	58	49	29th	28	28th	43·9	33·1	38·5	- 2·5	1	0·04	1	- 10	•	•	•	•	•	41·0	+1·0	47·2	+1·0	Lincoln.
a Fulbeck	180	50	29th	26	28th	43·7	32·1	37·9	- 2·3	1	0·09	2	- 9	1·9	—	24	•	•	41·7	+0·7	47·6	+0·3	Rauceby.
														1·5	—	19	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																							
p Cromer	196	46	29th	27	28th	43·0	32·9	38·0	- 2·6	2	0·16	4	—	1·5	—	19	•	•	•	•	•	•	Cromer.
a, North .. *p* Little Massingham	280	46	30th	25	28th	42·1	31·6	36·9	- 3·6	2	0·15	4	- 10	1·5	0·0	19	3	22	•	•	•	•	Lit. Massingham.
a Yarmouth	13	45	26th	29	28, 29	41·6	34·4	38·0	- 4·1	1	0·20	5	- 8	2·0	—	25	•	•	41·3	+0·2	48·0	+1·1	Yarmouth.
a Norwich	93	45	29th	26	28th	42·1	33·1	37·6	- 3·9	2	0·19	5	—	*1·4*	—	*18*	5	20	41·1	•	•	•	*Norwich.*
a Geldeston	37	47	27th	24	28th	43·3	31·9	37·6	- 4·6	3	0·20	5	- 8	1·6	- 0·2	20	•	•	•	•	•	•	Geldeston.
p Cambridge	41	46	26, 29	23	28th	42·4	31·9	37·2	- 4·2	1	0·02	1	- 9	1·5	- 0·1	19	5	16	41·7	+0·2	47·5	+0·4	Cambridge.
b, South .. *a* Clacton-on-Sea	54	44	26, 28	28	28th	42·3	34·3	38·3	- 4·3	1	0·08	2	—	2·2	—	27	2	22	42·6	-2·4	48·7	+0·3	Clacton.
a Rothamsted	424	44	26th	22	28th	40·6	30·6	35·6	- 5·6	2	0·02	1	- 14	1·6	0·0	20	4	18	41·0	•	•	•	Rothamsted.
p Tottenham	51	46	26th	30	28th	43·1	34·6	38·9	- 3·6	0	0·00	0	—	1·4	—	17	1	24	•	•	48·5	+0·3	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate	479	51	29th	28	2nd	42·6	33·9	38·3	- 2·1	2	0·02	1	- 14	1·7	—	22	4	21	41·7	+0·8	44·6	+0·2	Harrogate.
p Buxton	*987*	*47*	*29th*	*24*	*28th*	*39·4*	*31·3*	*35·4*	*- 3·6*	*2*	*0·11*	*3*	*- 25*	*0·5*	—	*6*	3	22	38·5	-0·9	44·8	-1·1	*Buxton.*
														0·9	—	11	4	22	41·4	+0·7	46·9	+0·5	Sheffield.
a Bawtry	65	50	29th	26	28th	43·1	33·6	38·4	- 2·2	1	0·02	1	- 10	0·9	- 0·4	11	5	18	40·8	•	45·5	•	Worksop.
a Nottingham	82	50	29th	26	28th	42·9	32·9	37·9	- 3·3	1	0·04	1	- 10	1·0	—	13	5	20	40·0	+0·4	45·0	+0·2	Nottingham.
b, East .. *p* Birmingham, Edgbsn.	535	47	29th	28	1st	41·7	33·6	37·7	- 3·3	1	0·04	1	- 13	0·6	—	8	4	23	41·6	-0·3	47·3	-0·1	Birmingham.
a Raunds	203	48	29th	22	28th	42·3	29·6	36·0	- 4·9	1	0·06	2	—	*1·4*	—	*18*	6	16	43·3	•	50·0	•	*Raunds.*
p Oxford	208	47	26, 29	27	28th	42·0	33·4	37·7	- 4·0	1	0·01	0	- 13	2·1	+ 0·5	26	4	18	•	•	•	•	Oxford
a Cheadle	646	46	29th	28	28, 1	39·9	31·9	35·9	- 4·3	2	0·16	4	- 13	•	•	•	5	21	•	•	•	•	Cheadle.
c, West .. *p* Shrewsbury	191	52	29th	23	27, 28	46·7	30·3	38·5	- 4·2	1	0·07	2	—	•	•	•	4	23	•	•	•	•	Shrewsbury.
a Hereford§	291	48	29th	29	28, 1	42·6	30·7	36·7	- 4·9	1	0·01	0·2	- 14	*1·6*	—	*20*	6	19	40·6	•	46·2	•	*Malvern.*§
a Bath	66	53	29th	24	28th	44·6	30·9	37·8	- 4·7	1	0·01	0	- 18	•	•	•	•	•	43·2	-0·8	49·2	+0·2	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	46	29th	21	28th	41·3	29·3	35·3	- 5·5	2	0·02	1	- 17	3·1	—	37	5	21	43·3	+0·2	50·0	+1·3	Worthing.
a Margate	53	45	26-28	31	28th	42·7	35·3	39·0	- 4·5	1	0·03	1	- 12	1·2	- 0·1	15	5	15	41·6	•	48·6	•	Marlborough.
a Wisley, Surrey	150	46	26th	25	28th	42·0	31·7	36·9	- 6·0	0	0·00	0	—	1·4	- 0·3	17	2	27	42·9	-1·2	48·6	+1·6	Margate.
p Salisbury (Wilton)	180	48	26th	24	28th	43·0	30·9	37·0	- 4·8	1	0·05	1	- 19	1·9	—	23	5	13	42·1	0·0	47·5	+0·4	Wisley.
a Tunbridge Wells	354	47	26th	24	28th	42·1	31·3	36·7	- 5·4	1	0·04	1	- 18	1·9	+ 0·1	23	5	20	41·3	•	•	•	Salisbury.
																	5	15	43·0	+1·5	48·7	•	Tunbridge Wells.
a Dungeness	21	47	26th	28	28, 29	43·0	34·3	38·7	- 5·6	0	0·00	0	- 14	•	•	•	•	•	•	•	•	•	Littlestone.
p Hastings	178	47	26th	32	28th	42·6	35·3	39·0	- 5·0	1	0·07	2	- 16	2·9	+ 0·8	35	1	25	42·0	•	49·4	•	Hastings.
p Southampton	64	48	28th	25	28th	43·7	33·0	38·4	- 5·3	1	0·01	0·3	- 18	1·9	+ 0·1	23	5	17	•	•	•	•	Southampton.
a Ventnor	59	48	26, 28	33	28th	45·6	37·0	41·3	- 5·1	0	0·00	0	- 19	2·7	+ 0·8	33	•	•	•	•	•	•	Ventnor.
LONDON. *p* Kew Observatory	18	46	26th	26	28th	42·4	33·4	37·9	- 4·5	0	0·01	0·2	- 12	2·0	+ 0·6	25	3	21	40·8	-1·1	47·5	-0·2	Kew Obs.
a Westminster	*27*	*50*	*26th*	*26*	*28th*	*43·7*	*32·9*	*38·3*	*- 4·3*	*0*	*0·00*	*0*	*- 13*	*1·0*	*+ 0·4*	*12*	4	25	•	•	•	•	*Westminster.*
a Greenwich	*155*	*46*	*26th*	*25*	*28th*	*43·3*	*32·1*	*37·2*	*- 5·4*	*0*	*0·00*	*0*	*- 13*	*1·6*	*+ 0·3*	*20*	4	20	•	•	•	•	*Greenwich.*
a Hampstead	*450*	*46*	*26th*	*26*	*28th*	*41·0*	*30·7*	*35·9*	—	*0*	*0·00*	*0*	—	*2·1*	—	*26*	7	11	•	•	•	•	*Hampstead.*
a Camden Square	*110*	*48*	*26th*	*26*	*28th*	*43·1*	*33·3*	*38·2*	—	*0*	*0·00*	*0*	—	*1·8*	—	*22*	3	25	•	•	•	•	*Camden Square.*
7. *a*, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	51	29th	28	27th	45·9	35·9	40·9	- 0·3	6	1·51	38	+ 14	1·5	—	19	•	•	•	•	•	•	Hoylake.
p Newton Rigg	559	51	29th	26	27, 28	46·0	34·3	40·2	+ 0·4	5	0·80	20	- 2	1·5	—	19	4	21	42·8	•	46·5	•	Aspatria.
p Stonyhurst	375	50	29th	29	28th	45·0	34·9	40·0	- 1·5	7	0·21	5	- 21	1·3	- 0·1	17	5	21	42·4	+1·9	45·7	+1·1	Newton Rigg.
p Blackpool	66	51	29th	32	28, 2	45·9	37·7	41·8	- 0·8	4	0·14	4	- 15	1·3	+ 0·1	17	3	23	•	•	•	•	Stonyhurst.
a Southport	37	52	29th	32	2nd	44·7	37·3	41·0	- 1·4	2	0·02	1	- 17	1·3	+ 0·1	17	3	25	44·6	•	49·1	•	Blackpool.
a Liverpool (Bidston)	188	53	29th	32	2nd	45·1	38·9	42·0	- 0·3	3	0·35	9	- 5	1·4	+ 0·2	18	3	21	40·8	+1·3	45·6	+1·2	Southport.
a Hawarden Bridge	22	54	29th	33	2nd	46·6	38·0	42·3	- 1·5	2	0·11	3	- 10	*1·5*	—	*19*	2	29	•	•	•	•	*Liverpool.*
p Manchester (Whit. Pk.)	125	52	29th	30	27, 28	44·6	35·1	39·9	- 2·4	4	0·07	2	- 13	*0·4*	—	*5*	3	25	41·3	+1·0	48·3	+1·4	*Manchester (City).*
														0·2	*- 0·2*	*3*	•	•	•	•	•	•	" *(Whit. Park).*
b, NORTH WALES.																							
p Llandudno	71	53	29, 30	35	27th	?50·8	40·3	?45·6	+ 0·7	3	0·12	3	- 14	1·7	+ 0·2	22	•	•	•	•	•	•	Llandudno.
a Holyhead	15	52	29th	39	2nd	48·9	43·9	46·4	+ 0·9	6	0·75	19	- 5	*1·2*	—	*15*	•	•	•	•	•	•	*Holyhead.*
p Bettws-y-Coed	148	52	29th	31	27th	47·7	36·7	42·2	- 2·4	5	0·43	11	—	1·3	—	16	•	•	43·4	+1·6	47·0	+0·5	Bettws-y-Coed.
														2·3	—	29	•	•	•	•	•	•	Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.								Ground Frosts.	Lowest Reading.	Mean.	Deviation from average.	Mean.	Deviation from average	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														2·0	—								Aberystwyth.
a Llangammarch Wells	550	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	Llangammarch.
a Pembroke	149	51	28, 29	36	27th	47·9	42·7	45·3	− 1·3	5	0·48	12	− 11	2·1	+ 0·3	26	•	•	•	•	•	•	Pembroke.
p Cardiff	202	50	29th	30	2nd	43·7	34·7	39·2	− 3·3	1	0·02	1	− 24	*3·0*	—	*25*	4	23	42·7	+0·6	49·0	+1·8	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	50	29th	30	28th	43·4	34·9	39·2	− 4·3	0	0·00	0	− 20	*1·5*	—	*19*	3	26	•	•	•	•	*Clifton.*
a Shaftesbury	722	45	29th	30	27, 28	40·7	33·1	36·9	− 5·3	0	0·00	0	− 20	•	•	•	•	•	41·2	•	47·6	•	Shaftesbury.
a Arlington	613	50	1st	28	28th	46·1	32·6	39·4	− 3·8	1	0·03	1	− 33	•	•	•	•	•	•	•	•	•	Arlington.
a Newquay	*190*	*52*	*2nd*	*33*	*28, 30*	*48·6*	*37·0*	*42·8*	− *4·4*	*1*	*0·13*	*3*	− *18*	3·1	+ 1·0	37	•	•	47·2	•	50·8	•	Newquay.
a Cullompton	202	50	29th	24	28th	44·6	30·3	37·5	− 5·8	2	0·06	2	− 20	2·7	+ 1·2	33	7	18	42·9	•	•	•	Cullompton.
a Portland Bill	19	49	26, 29, 1	35	28th	46·9	40·1	43·5	− 2·5	0	0·00	0·1	—	*2·5*	—	*30*	•	•	•	•	•	•	*Weymouth.*
p Plymouth	116	54	29th	30	28th	48·6	36·6	42·6	− 3·4	1	0·04	1	− 22	3·1	+ 1·2	37	•	•	44·0	−1·5	49·8	•	Plymouth.
a Falmouth	167	53	29th	34	28th	49·1	37·4	43·3	− 3·8	1	0·08	2	− 28	3·2	+ 1·1	39	4	24	46·0	•	51·1	•	Falmouth.
9. IRELAND, N.																							
a, West .. { *a* Malin Head	208	51	28th	38	27, 1, 2	46·9	40·0	43·5	− 0·6	6	1·14	29	+ 10	*0·3*	—	*4*	•	•	•	•	•	•	*Malin Head.*
a Blacksod Point ..	327	52	1st	38	27th	48·4	41·0	44·7	− 0·7	7	0·98	25	− 8	•	•	•	•	•	•	•	•	•	
p Markree Castle ..	122	53	28th	29	27th	47·7	34·9	41·3	− 1·1	6	0·72	18	− 7	0·4	− 1·1	5	2	25	44·4	•	48·7	•	Markree Castle.
a Birr Castle	175	52	29th	27	28th	47·6	35·7	41·7	− 0·8	5	0·36	9	− 10	*1·1*	− *0·7*	*14*	4	20	•	•	•	•	*Birr Castle.*
b, East .. { *p* Armagh	196	51	29th	31	27th	46·1	36·4	41·3	− 0·9	5	0·26	7	− 11	0·9	− 0·6	12	2	27	45·1	+3·4	48·7	+2·1	Armagh.
a Donaghadee	101	51	29th	38	27, 28, 1	47·4	39·6	43·5	− 0·1	5	0·25	6	− 12	•	•	•	2	27	45·1	+2·2	48·6	+1·5	Trinity Coll.
														1·8	− 0·2	23	2	24	•	•	•	•	Phœnix Park.
10. IRELAND, S.														•	•	•	1	29	•	•	•	•	Dublin City.
p Dublin, City	47	53	29th	33	27th	47·4	40·7	44·1	− 0·6	4	0·41	10	− 5	•	•	•	•	•	•	•	•	•	
a, East .. { *a* Kilkenny	212	51	28-30	32	27, 28	48·1	38·6	43·4	+ 0·5	6	0·44	11	− 8	•	•	•	•	•	•	•	•	•	
a Waterford	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
a Seskin, Carrick-on-Suir	*541*	*52*	*28th*	*32*	*27th*	*46·9*	*39·1*	*43·0*	—	7	*0·35*	*9*	—	*1·8*	—	*23*	2	29	•	•	•	•	*Seskin.*
a Birr Castle	175	52	29th	27	28th	47·6	35·7	41·7	− 0·8	5	0·36	9	− 10	1·1	− 0·7	14	4	20	•	•	•	•	Birr Castle.
a Foynes	50	53	26th	36	27th	50·7	40·4	45·6	+ 0·8	6	0·40	10	− 15	•	•	•	•	•	•	•	•	•	
a Cahir	199	51	?28-30	32	27th	?48·4	?38·4	?43·4	− 0·8	7	0·85	22	—	•	•	•	•	•	•	•	•	•	
b, West .. { *a* Killarney	174	54	28th	30	27th	50·5	39·6	45·1	+ 0·1	7	0·59	15	− 22	•	•	•	•	•	•	•	•	•	
a Valencia	30	52	28, 29	36	28th	50·3	40·7	45·5	− 1·4	6	0·75	19	− 16	0·9	− 0·9	11	•	•	•	•	•	•	Valencia.
a Roche's Point	32	52	30th	37	27, 28	49·9	43·3	46·6	+ 0·4	7	0·37	9	− 19	1·6	—	20	•	•	•	•	•	•	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	52	29th	40	28th	49·9	42·9	46·4	− 2·7	4	0·17	4	− 18	3·3	+ 1·2	40	•	•	•	•	•	•	Scilly.
a Jersey, St. Aubins ..	25	50	26th	31	29th	45·7	35·0	40·4	− 7·0	1	0·24	6	− 17	3·6	+ 1·3	43	•	•	•	•	•	•	St. Heliers.
a Guernsey (Villa Carey)	180	50	28th	31	28th	47·1	37·1	42·1	− 5·6	1	0·03	1	− 25	4·1	+ 2·4	49	4	28	44·0	−3·3	50·7	−0·5	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, December 2nd, 1916.

DISTRICT AND STATION.	Height.			Distribution of Wind.								Extreme Velocities.						
	Above Mean Sea Level.	Above Ground.	Above Building.	Gales, force 8 or more.		High Winds, forces 6 and 7.		Fresh or Moderate Winds, forces 4 and 5.	Light Winds, forces 2 and 3.	Calms and Light Airs, forces 0 and 1.	No Record.	Highest Hourly Wind.			Highest Gust with Date and Time, G.M.T.			
				Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Velocity.		Date and Hour, G.M.T.				
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.		m/s.	d.	h.	m.
1. SCOTLAND, E.																		
Dyce	305	75	‡15**	—	—	—	—	29	84	29	26	—	8	28th 17h.	16	26th	9	5
Aberdeen*	153	105 { 37 / 52 }	†	—	—	—	—	71	74	23	0	WNW.	11	26th 10h.	18	27th	0	35
Edinburgh	485	39	31	—	—	28, 29	6	71	66	25	0	SW. by S.	12	29th 8h.	21	28th	7	30
6 SCOTLAND, W.																		
Eskdalemuir	825	50	22	—	—	28, 29	11	55	39	63	0	SW.	13	29th 8h.	21	29th	8	14
Paisley	188	81	52	—	—	—	—	27	84	57	0	SW. by S.	8	28th 8h.	17	28th	7	50
2. ENGLAND, N.E.																		
Alnwick Castle	340	70	17	—	—	—	—	38	89	41	0	SW. by W.	9	29th 5h.	17	29th	4	30
South Shields	72	61	12	—	—	—	—	47	119	2	0	SW. by W.	8	29th 9h.	14	29th	8	35
Spurn Head	66	40	‡	—	—	—	—	87	80	1	0	NNW.	10	26th 3h.	15	26th	0	32
3. ENGLAND, E.																		
Gorleston	52	42	‡	—	—	—	—	—	—	—	—	—	—	— —	—	—	—	—
Shoeburyness	103	90	‡	—	—	—	—	66	95	7	0	SSW.	9	29th 5h.	15	26th	0	10
4. MIDLAND COUNTIES.																		
Benson	270	84	‡	—	—	—	—	21	109	38	0	S. by W.	7	29th 17h	10	26th	2	27
5. ENGLAND, S.E.																		
Dover	271	40	‡	—	—	—	—	—	—	—	—	—	—	— —	—	—	—	—
Warlingham	642	33	‡	—	—	—	—	2	129	17	20	—	6	2nd 9h.	12	2nd	9	10
Brighton	261	53	6	—	—	—	—	18	120	12	18	—	9	2nd 7h.	16	2nd	6	37
Kew Observatory ..	82	65 { 6 / 22 }	†	—	—	—	—	13	124	31	0	ENE.	7	2nd 10h.	12	26th	2	26
South Kensington‖ ..	123	92	30	—	—	—	—	—	—	—	—	—	—	— —	—	—	—	—
7. ENGLAND, N.W.																		
Carnforth	246	56	23	—	—	—	—	3	93	72	0	—	7	29th 7h.	14	29th	7	5
Southport	80	62	48	—	—	26th	11	89	66	2	0	NW. by W.	14	26th 12h.	20	26th	0	10
Holyhead*	60	40	‡	—	—	26 to 30	63	55	43	7	0	NW. by W.	15	26th 2h.	19	26th	1	25
8. ENGLAND, S.W.																		
Pendennis Castle§ ..	256	65	24	—	—	1, 2	9	73	56	30	0	E.	14	1st 20h.	17	1st	18	58
Plymouth	185	88	2	—	—	—	—	46	99	23	0	—	9	1st 21h.	16	1st	20	55
Lyme Regis	556	61	‡	—	—	—	—	18	100	50	0	—	10	27th 8h.	13	27th	10	6
10. IRELAND, S.																		
Quilty	100	40	‡	—	—	26th	7	107	37	2	15	—	14	26th 5h.	22	26th	12	15
Weaver Pt.	160	30	‡	—	—	—	—	—	—	—	—	—	—	— —	—	—	—	—
11. ENGLISH CHANNEL.																		
Scilly*	150	{ 32 / 19 }	‡	—	—	26th	22	31	92	23	0	NW. by W.	16	26th 1h.	21	26th	0	35

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.

† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof. ‖ The Anemograph at S. Kensington was dismounted on November 9th.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

FORTY-EIGHTH WEEK—November 26th to December 2nd, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
			Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	53	30	80·9	75·3	78·1	+ 0·5	12	0	23	− 2	6	0	1·42	36	0	0·7	−0·2	10	1011
Eastern.																			
1. SCOTLAND, EAST ...	53	24	80·1	74·0	77·1	0·0	8	− 3	31	0	5	+ 2	0·59	15	− 3	1·0	−0·2	15	1015
2. ENGLAND, N.E.	53	26	80·0	74·2	77·1	− 1·0	7	− 7	30	+ 9	2	− 3	0·16	4	− 8	1·5	0·0	20	1017
3. ENGLAND, EAST ...	47	22	78·7	73·4	76·1	− 1·7	1	− 14	33	+ 8	2	− 1	0·11	3	− 10	1·7	+0·1	21	1020
4. MIDLAND COUNTIES ...	53	22	79·0	73·1	76·1	− 1·6	2	− 13	36	+ 10	1	− 3	0·04	1	− 12	1·2	−0·2	15	1020
5. ENGLAND, S.E.	48	21	79·0	73·7	76·3	− 2·5	2	− 19	21	+ 13	1	− 2	0·02	1	− 15	2·1	+0·5	26	1020
Western.																			
6. SCOTLAND, WEST ...	51	24	81·1	75·9	78·5	− 0·2	13	− 4	20	+ 3	6	+ 2	0·88	22	− 10	0·7	−0·6	9	1015
7. ENGLAND, N.W.	54	26	81·1	76·1	78·6	− 0·1	19	+ 1	12	− 3	4	0	0·44	11	− 11	1·5	+0·2	20	1017
8. ENGLAND, S.W.	54	24	80·6	75·1	77·9	− 1·6	10	− 15	25	+ 11	1	− 3	0·08	2	− 23	2·7	+1·0	33	1019
9. IRELAND, NORTH ...	53	27	81·6	76·3	78·9	+ 0·2	22	+ 4	11	− 5	6	+ 1	0·62	16	− 6	0·7	−0·8	8	1015
10. IRELAND, SOUTH ...	54	27	82·5	77·3	79·9	+ 0·3	26	0	6	− 7	6	+ 1	0·52	13	− 10	1·4	−0·4	16	1018
11. ENGLISH CHANNEL ...	52	31	81·7	76.5	79·1	− 2·4	23	− 17	10	+ 8	2	− 3	0·15	4	− 19	3·7	+1·7	44	1020
THE SEASON (**Autumn**).—Aggregates, &c., for the Period of 13 Weeks, September 3rd to December 2nd, 1916.																			
0. SCOTLAND, NORTH ...	71	24	84·3	79·0	81·6	+ 0·6	543	+ 19	45	− 72	65	− 1	18·61	474	+ 77	1·8	−0·5	17	1006
Eastern.																			
1. SCOTLAND, EAST ...	74	18	84·7	77·8	81·2	+ 0·3	556	+ 3	113	− 39	55	+ 2	10·83	275	+ 58	2·5	−0·3	24	1007
2. ENGLAND, N.E.	74	24	85·8	79·3	82·5	+ 0·5	727	+ 71	67	− 18	49	− 1	6·80	174	− 11	2·7	−0·4	26	1010
3. ENGLAND, EAST ...	71	22	86·3	79·7	82·9	+ 0·4	797	+ 49	65	− 35	47	0	6·81	174	− 1	2·9	−0·5	27	1012
4. MIDLAND COUNTIES ...	73	22	86·2	78·9	82·5	+ 0·6	770	+ 86	98	− 20	48	+ 1	7·85	200	+ 12	2·5	−0·5	24	1012
5. ENGLAND, S.E.	73	21	86·9	80·6	83·7	+ 0·4	901	+ 53	53	− 14	47	+ 1	10·75	275	+ 58	3·0	−0·4	28	1013
Western.																			
6. SCOTLAND. WEST ...	72	24	85·2	79·7	82·4	+ 0·5	673	+ 42	39	− 43	67	+12	14·20	362	− 7	2·1	−0·7	20	1008
7. ENGLAND, N.W. ...	75	25	85·9	80·4	83·1	+ 0·6	781	+ 73	28	− 34	57	+ 5	11·87	303	+ 34	2·2	−0·6	21	1010
8. ENGLAND, S.W.	72	24	86·7	81·3	83·9	+ 0·6	914	+ 93	36	− 15	54	0	13·96	356	+ 54	2·5	−0·8	24	1011
9. IRELAND, NORTH ...	73	26	85·7	80·5	83·1	+ 1·0	786	+124	30	− 41	69	+ 9	13·04	332	+ 52	1·7	−1·1	17	1007
10. IRELAND, SOUTH ...	77	27	86·7	81·4	84·0	+ 1·1	917	+142	16	− 44	70	+16	16·37	416	+140	2·1	−1·2	20	1010
11. ENGLISH CHANNEL ...	73	31	87·5	83·1	85·2	+ 0·1	1109	+ 32	10	+ 6	57	− 2	12·74	322	+ 56	3·5	−0·6	33	1012
THE YEAR.—Aggregates, &c., for the Period of 48 Weeks, January 2nd to December 2nd, 1916.																			
0. SCOTLAND, NORTH ...	81	20	84·0	78·3	81·1	+ 0·2	2037	− 41	499	−175	231	+ 5	52:58	1334	+139	2·7	−0·6	21	1009
Eastern.																			
1. SCOTLAND, EAST ...	82	7	84·6	77·6	81·0	0·0	2171	−152	698	− 74	205	+19	38·42	977	+263	3·3	−0·6	26	1009
2. ENGLAND, N.E.	84	20	85·8	79·0	82·3	+ 0·4	2735	+129	446	−114	180	+10	25·02	638	+ 58	3·6	−0·6	29	1011
3. ENGLAND, EAST ...	83	22	86·6	79·3	82·8	+ 0·3	3033	+ 25	418	−203	179	+16	25·58	649	+ 98	3·8	−0·8	31	1013
4. MIDLAND COUNTIES ...	84	21	86·7	78·7	82·6	+ 0·3	2983	+ 63	503	−148	175	+13	26·93	687	+ 73	3·5	−0·6	28	1012
5. ENGLAND, S.E.	86	15	87·1	79·9	83·4	+ 0·2	3295	+ 28	347	−101	173	+17	30·05	765	+140	4·2	−0·4	34	1013
Western.																			
6. SCOTLAND, WEST ...	83	17	85·4	79·0	82·1	+ 0·2	2584	+ 50	404	−103	215	+20	42·45	1083	− 18	3·7	−0·3	29	1011
7. ENGLAND, N.W.	83	8	85·8	79·8	82·7	+ 0·3	2860	+ 85	338	−110	190	+10	33·99	865	+ 57	3·6	−0·4	29	1012
8. ENGLAND, S.W.	84	17	86·7	80·2	83·2	+ 0·1	3171	+ 58	315	− 37	188	+ 9	39·39	1008	+128	4·2	−0·3	34	1013
9. IRELAND, NORTH ...	81	18	85·5	79·4	82·4	+ 0·2	2702	+ 53	364	− 52	229	+17	37·59	961	+ 72	3·3	−0·4	26	1010
10. IRELAND, SOUTH ...	85	20	86·7	80·3	83·4	+ 0·3	3203	+142	260	− 59	235	+46	41·35	1046	+130	3·8	−0·4	31	1013
11. ENGLISH CHANNEL ...	80	30	87·2	82·0	84·5	+ 0·1	3697	+ 34	95	− 18	188	− 4	32·62	824	+ 86	5·0	−0·5	40	1014
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics, South Kensington, S.W., December 7th, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 49. SUNDAY, DECEMBER 3RD, to SATURDAY, DECEMBER 9TH, 1916.

Price 6d., Post free 7d.
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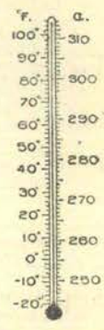
I.—THE FORTY-NINTH WEEK OF 1916.

The dry weather of the preceding week was succeeded by another rainy period. Over the Kingdom generally rain fell on most days, and the total fall was heavy in Scotland East and Ireland North. In Scotland North and West, however, it was light for the time of year. As a rule the daily amounts were not large, but on the 8th as much as 26 mm. fell at Markree Castle, and on the 9th 32 mm. at Falmouth, 29 mm. at Alnwick Castle, 34 mm at Balmoral, 35 mm. at Crieff, and 38 mm. at Crathes. A small proportion of the precipitation in the north and north-east was composed of snow and sleet. Temperature was below the normal very generally. Maximum readings below 278 a. were common at inland stations, and at Nottingham and some other midland stations on the 6th the thermometer remained below 273 a. all day. There was no reading as high as 284 a. throughout the week. Frost was experienced on several nights and was severe in many northern and midland districts. On the 5th at Balmoral and West Linton the minimum was as low as 264 a., and on the 7th at Cullompton and a number of midland stations about 267 a. was recorded. On the grass the lowest readings were 260 a. at West Linton, 261 a. at Balmoral and Raunds, and 262 a. at Marlborough. Glazed frost occurred at Aberdeen on the 3rd and again on the 9th. The amount of bright sunshine varied considerably in the different districts. In England North-East, North-West, South-West, and the Midland Counties there was about 2 hours a day whereas in England East there was little more than half an hour. Lunar halos were observed from various parts of the Kingdom, the phenomenon being exceptionally fine at Aberdeen on the 7th. The temperature of the sea surface water was found at most observing stations to differ but slightly from that of the preceding week, at Eastbourne there was a drop of more than 1 a. The mean temperature 280a. being 2 a. below the normal.



WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.
		m/s		m/s		m/s		m/s		m/s		m/s		m/s		m/s
South	4	3·5	5	1·8	2	4·0	1	3·0	3	3·3	1	1·7	4	2·2	2	3·0
North	3	5·5	2	3·1	5	3·0	6	2·2	4	6·3	5	5·0	3	2·6	5	3·3
West	6	2·4	6	3·6	4	2·6	4	1·8	4	3·4	3	6·8	5	4·5	2	4·5
East	1	5·1	1	5·9	3	4·8	1	2·2	3	3·9	4	1·8	1	8·0	2	0·9
Calm	0	—	0	—	0	—	0	—	0	—	0	—	0	—	¼	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c. is printed on a separate sheet. *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel
Comparison with normal for the time of year ...	Warmth ...	Deficient	Deficient	Deficient	Moderate	Deficient	Deficient	Deficient	Deficient	Deficient	Moderate	Deficient	Deficient
	Rainfall ...	Light	Heavy	Moderate	Moderate	Moderate	Moderate	Light	Moderate	Moderate	Heavy	Moderate	Moderate
	Sunshine ...	Moderate	Moderate	Abundant	Scanty	Abundant	Moderate	Abundant	Very abundant	Abundant	Moderate	Moderate	Moderate

II.—THE WINTER SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

WINTER. 1 week from Dec. 3rd, 1916.	Warmth ...	0, 0, 1	0, 0, 1	0, 0, 1	0, 1, 0	0, 0, 1	0, 0, 1	0, 0, 1	0, 0, 1	0, 0, 1	0, 1, 0	0, 0, 1	0, 0, 1
	Rainfall ...	0, 0, 1	1, 0, 0	0, 1, 0	0, 1, 0	0, 1, 0	0, 1, 0	0, 0, 1	0, 1, 0	0, 1, 0	1, 0, 0	0, 1, 0	0, 1, 0
	Sunshine ...	0, 1, 0	0, 1, 0	1, 0, 0	0, 0, 1	1, 0, 0	0, 1, 0	1, 0, 0	1, 0, 0	1, 0, 0	0, 1, 0	0, 1, 0	0, 1, 0

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(9854—19.) Wt. 79a—736. 450. 12/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.																							
p Baltasound	*31*	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	*Baltasound.*
a Islands .. *a* Lerwick	54	48	6th	32	9th	43·7	36·3	40·2	- 1·1	7	1·15	29	—	1·1	+ 0·3	17	*	*	*	*	*	*	Deerness.
a Stornoway	51	50	6th	31	8th	43·9	35·7	40·0	- 1·1	6	1·10	28	- 7	0·6	- 0·4	9	*	*	*	*	*	*	Stornoway.
a Castlebay, Barra Isd.	*37*	*49*	*5,6*	*36*	*4th*	*46·3*	*40·7*	*43·6*	*- 0·5*	*7*	*0·80*	*20*	—	*0·7*	—	*10*							*Castlebay.*
a Wick	81	46	6th	25	9th	42·7	32·3	37·7	- 2·5	5	0·76	19	+ 2	*	*	*	*	*	*	*	*	*	
p Strathpeffer	200	49	6th	24	9th	41·4	31·4	36·6	- 2·1	4	0·84	21	+ 3				*	*	*	*	*	*	Strathpeffer.
b, Main- *p* Glencarron	500	47	6,7	26	9th	41·3	31·9	36·8	- 1·9	5	1·57	40	- 17	*	*	*	*	*	*	*	*	*	
land. *p* Fort Augustus	68	48	6,7	26	5th	42·9	32·7	38·0	- 1·7	5	0·23	6	- 24	0·2	- 0·1	3	*	*	*	*	*	*	Fort Augustus.
p Fort William	171	48	6,7	27	9th	42·3	32·4	37·8	- 3·8	5	0·49	12	- 41	*	*	*	*	*	*	*	*	*	
1. SCOTLAND, E.														0·8	—	12	7	17	38·7	-0·2	43·2	+1·1	Crathes.
p Gordon Castle	101	49	6th	25	9th	43·3	32·7	38·2	- 1·7	6	0·72	18	+ 4	*1·0*	—	*15*	*	*	*	*	*	*	*Gordon Castle.*
a Nairn	82	49	6th	22	9th	41·9	30·6	36·5	- 2·6	6	0·65	17	+ 5	1·1	—	16	*	*	*	*	*	*	Nairn.
a Aberdeen	46	45	6, 7, 9	29	9th	42·0	33·0	37·7	- 2·3	6	1·02	26	+ 9	0·9	- 0·5	13	4	24	*	*	44·1	+1·0	Aberdeen.
a Balmoral	930	44	6th	16	5th	38·6	27·4	33·2	- 3·0	3	1·57	40	+ 20	*	*	*	5	10	*	*	*	*	Balmoral.
p Crieff	432	45	7th	23	5,	41·3	28·3	35·1	- 4·1	2	1·39	35	+ 10	2·2	—	32							Balruddery.
a Leith	18	47	6, 7	28	5, 6	43·3	33·0	38·4	- 2·7	2	0·45	11	0	*	*	*	*	*	*	*	*	*	
a West Linton	769	42	6, 7	16	5th	39·3	25·9	32·9	- 3·1	4	0·71	18	—	*0·8*	—	*11*	6	8	*	*	*	*	*West Linton.*
p Marchmont	498	43	7th	25	9th	40·6	30·0	35·5	- 3·1	3	1·18	30	+ 14	1·2	0·0	17	4	22	*	*	*	*	Marchmont.
a Edinburgh	*441*	*46*	*6, 7*	*28*	*9th*	*48·4*	*33·7*	*38·2*	—	*2*	*0·55*	*14*	—	1·2	—	17	4	20	*	*	*	*	Edinburgh.
6. *a*, SCOTLAND, W.																							
a Poltalloch	132	47	6th	—	—	42·3	—	—	—	7	0·90	23	- 9	*	*	*	*	*	*	*	*	*	
p Glasgow Observatory	180	46	7th	28	5th	41·9	33·9	38·1	- 2·7	4	0·81	21	- 2	1·4	+ 0·9	20	4	20	*	*	*	*	Glasgow.
p Rothesay	170	46	6-8	32	9th	43·0	35·4	39·4	- 2·3	6	0·81	21	- 7	*1·6*	—	*23*	5	26	40·7	*	45·6	+1·3	*Rothesay.*
a Kilmarnock	90	46	6th	26	4,5	43·7	32·1	38·1	- 3·2	5	0·46	12	—	*1·6*	—	*23*	*	*	40·1	*	46·1	*	*Kilmarnock.*
a Colmonell	170	46	6th	30	5th	44·3	34·6	39·6	- 2·0	6	0·96	24	- 6	*	*	*	2	27	*	*	*	*	
a Dumfries	160	44	7, 8	25	5th	41·0	30·9	36·2	- 4·2	3	0·67	17	- 6	*2·0*	—	*27*	6	20	38·8	*	45·0	*	*Dumfries.*
Eskdalemuir	*794*	*40*	*3, 7-9*	*18*	*5, 6*	*38·6*	*27·1*	*33·1*	—	*3*	*0·67*	*17*	—	*2·1*	—	*30*	*	*	*	*	*	*	*Eskdalemuir.*
p Cally, Gatehouse	120	46	7th	25	4,5	43·7	31·3	37·8	- 2·6	3	1·13	29	- 2	*	*	*							
b, I. OF MAN. *p* Douglas	277	47	7th	36	4, 5, 8	44·6	37·9	41·4	- 1·9	5	0·44	11	- 17	2·3	+ 0·8	37	3	28	*	*	*	*	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	48	7th	27	9th	43·1	33·1	38·3	- 2·1	4	1·59	40	+ 23	2·2	—	31	5	19	38·2	+0·1	43·2	+1·3	Cockle Park.
a Tynemouth	71	45	7, 9	30	6th	42·0	33·4	37·9	- 3·2	2	0·59	15	+ 4	*	*	*	*	*	*	*	*	*	Tynemouth
p Durham	336	44	3rd	24	6th	41·1	29·7	35·6	- 3·6	3	0·61	15	+ 4	2·2	+ 0·8	30	5	18	*	*	*	*	Durham.
a North .. *p* Rounton	249	43	3, 9	27	6th	41·4	30·1	36·0	- 3·2	3	0·39	10	0	*	*	*	7	20	38·7	*	*	*	Rounton.
a West Witton	*605*	*44*	*5th*	*26*	*6th*	*41·3*	*30·3*	*36·0*	—	*3*	*0·83*	*21*	—	*	*	*	7	20	37·9	*	43·8	*	*West Witton.*
p Scarborough†	100	47	3rd	32	6th	42·9	34·3	38·8	- 2·7	6	1·17	30	+ 17	1·5	—	20	*	*	*	*	49·5	*	Scarborough.
p York	56	44	3, 8, 9	24	6th	40·7	31·4	36·2	- 4·3	4	0·53	13	+ 2	1·9	+ 1·0	26	*	*	40·4	-1·0	46·4	+0·9	York.
a Spurn Head	26	44	5th	32	3rd	41·3	33·7	37·7	- 4·1	5	0·80	20	+ 10	*0·5*	—	*7*	*	*	*	*	*	*	*Spurn Head.*
b South .. *a* Lincoln	58	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	Lincoln.
a Fulbeck	180	42	8th	23	7th	38·0	28·9	33·6	- 5·5	3	0·48	12	+ 1	1·8	—	24	*	*	38·4	-2·9	46·5	+0·1	Rauceby.
														1·4	—	18	*	*	*	*	*	*	Skegness.
3. ENGLAND, E.																							
p Cromer	196	?45	6th	28	9th	?43·1	35·1	?39·3	- 0·2	6	0·48	12	—	0·4	—	5	*	*	*	*	*	*	Cromer.
p Little Massingham	280	42	5, 6, 9	26	9th	40·9	30·3	35·8	- 3·7	5	0·63	17	+ 3	0·9	- 0·5	12	3	25	*	*	*	*	Lit. Massingham.
a, North .. *a* Yarmouth	13	44	5, 6, 9	29	9th	42·7	35·0	38·9	- 2·0	3	0·63	16	+ 3	0·3	—	4	*	*	40·3	-1·0	46·3	-0·1	Yarmouth.
a Norwich	93	44	9th	29	4, 9	41·9	34·3	38·3	- 1·9	6	0·80	20	—	*0·6*	—	*8*	3	24	39·6	*	*	*	*Norwich.*
a Geldeston	37	45	9th	26	9th	42·9	32·6	38·0	- 3·0	4	0·63	16	+ 4	0·5	- 1·2	6	*	*	*	*	*	*	Geldeston.
p Cambridge	41	46	9th	28	9th	40·1	31·1	35·8	- 4·6	4	0·25	6	- 4	0·7	- 0·7	9	5	18	39·2	-2·3	46·2	-0·1	Cambridge.
a Clacton-on-Sea	54	44	9th	29	4, 5	41·4	34·1	37·9	- 3·6	3	0·29	7	—	1·2	—	15	2	25	40·9	-3·5	47·3	-0·8	Clacton.
b, South .. *a* Rothamsted	424	46	9th	28	9th	39·9	30·4	35·3	- 4·9	4	0·47	12	- 2	1·2	- 0·3	15	5	22	38·9	*	*	*	Rothamsted.
p Tottenham	51	48	9th	31	4, 6	41·7	33·9	38·0	- 3·2	3	0·43	11	—	0·7	—	9	3	26	*	*	46·9	-0·5	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate	479	42	3rd	28	6, 9	40·7	31·4	36·2	- 3·1	4	0·62	16	+ 1	3·6	—	49	6	21	39·2	-1·4	43·6	+0·7	Harrogate.
p Buxton	*987*	*39*	*8th*	*20*	*6th*	*36·9*	*28·7*	*33·0*	*- 4·9*	*5*	*0·72*	*18*	*- 11*	*1·5*	—	*20*	5	22	35·9	-3·6	44·0	-1·1	*Buxton.*
														2·1	—	28	6	19	38·4	-2·1	45·7	+0·3	Sheffield.
a Bawtry	65	43	9th	21	7th	39·7	28·9	34·5	- 5·2	4	0·48	12	+ 1	1·3	+ 0·2	17	6	20	37·9	*	44·2	*	Worksop.
a Nottingham	82	46	9th	22	7th	39·4	26·4	33·2	- 7·0	3	0·39	10	- 2	0·3	—	4	6	19	36·0	-3·9	43·3	-0·6	Nottingham.
b, East .. *p* Birmingham, Edgbsn.	535	43	3, 8, 9	25	6th	39·9	30·9	35·6	- 4·4	3	0·39	10	- 4	0·9	—	12	6	13	39·0	-3·1	46·2	-0·6	Birmingham.
a Raunds	203	47	9th	22	6th	40·3	26·1	33·5	- 6·4	2	0·29	7	—	*2·0*	—	*26*	7	10	41·1	*	48·8	*	*Raunds.*
p Oxford	208	47	9th	24	7th	40·4	29·1	35·0	- 5·7	4	0·34	8	- 5	2·4	+ 1·0	30	7	18	*	*	*	*	Oxford
a Cheadle	646	42	6th	28	4-6	39·3	29·7	34·7	- 4·4	3	0·50	13	- 4	*	*	*	7	19	*	*	*	*	Cheadle.
p Shrewsbury	191	47	8th	—	—	43·9	—	—	—	4	0·44	11	—	*	*	*	6	18	*	*	*	*	Shrewsbury.
c, West .. *a* Hereford§	291	46	3rd	21	5-7	39·9	26·1	33·3	- 7·2	3	0·41	10	- 4	*3·9*	—	*51*	7	13	37·1	*	44·6	*	*Malvern.*§
a Bath	66	46	8th	23	6, 7	41·3	26·6	34·2	- 7·4	3	0·40	10	- 8	*	*	*	*	*	39·3	-4·6	47·5	-0·7	Bath.
5. ENGLAND, S.E.														1·9	—	24	5	23	41·0	-2·5	48·6	+0·8	Worthing.
a Marlborough	424	44	9th	20	7th	40·3	25·1	33·0	- 6·9	3	0·51	13	- 4	2·1	+ 0·9	27	6	12	38·0	*	47·5	*	Marlborough.
a Margate	53	47	6th	34	4th	43·7	37·0	40·5	- 1·8	3	0·13	3	- 9	0·7	- 0·9	9	1	30	41·6	-2·1	46·6	+0·4	Margate.
a Wisley, Surrey	150	48	9th	29	4, 9	41·4	31·1	36·5	- 5·3	4	0·39	10	—	1·3	—	16	4	16	40·0	-2·4	46·1	-0·4	Wisley.
p Salisbury (Wilton)	180	45	8, 9	27	7th	41·1	30·6	36·1	- 4·6	3	0·33	8	- 12	*	*	*	4	21	38·1	*	*	*	Salisbury.
a Tunbridge Wells	354	47	9th	27	4th	41·6	32·4	37·2	- 3·7	3	0·67	17	- 1	0·3	- 1·3	4	5	16	41·0	-0·8	47·1	*	Tunbridge Wells.
a Dungeness	21	47	8, 9	28	5th	43·1	34·7	39·1	- 4·1	3	0·43	11	- 2	*	*	*	*	*	*	*	*	*	Littlestone.
p Hastings	178	47	8, 9	28	4th	42·3	34·1	38·4	- 4·5	4	0·43	11	- 6	2·0	+ 0·1	25	3	23	39·5	*	47·4	*	Hastings.
p Southampton	64	48	9th	29	4, 6	42·1	31·0	36·8	- 5·9	3	0·65	16	- 2	3·1	+ 1·5	39	5	18	*	*	*	*	Southampton.
a Ventnor	59	49	8th	32	6th	44·3	34·6	39·6	- 5·6	3	0·64	16	- 2	3·4	+ 1·7	43	*	*	*	*	*	*	Ventnor.
LONDON. *p* Kew Observatory	18	49	9th	28	9th	41·5	31·8	36·8	- 4·6	5	0·29	7	- 5	1·3	- 0·1	16	4	21	38·3	-3·9	46·0	-1·0	Kew Obs.
a Westminster	*27*	*50*	*9th*	*28*	*4th*	*43·0*	*33·5*	*38·4*	*- 3·1*	*3*	*0·31*	*8*	*- 4*	*0·5*	*0·0*	*6*	?3	26	*	*	*	*	*Westminster.*
a Greenwich	*155*	*48*	*9th*	*28*	*9th*	*41·4*	*33·4*	*37·6*	*- 3·6*	*3*	*0·41*	*10*	*- 3*	*0·6*	*- 0·6*	*8*	4	22	*	*	*	*	*Greenwich.*
a Hampstead	*450*	*46*	*9th*	*28*	*4th*	*39·9*	*31·1*	*35·7*	—	*3*	*0·41*	*10*	—	*1·0*	—	*13*	7	14	*	*	*	*	*Hampstead.*
a Camden Square	*110*	*48*	*9th*	*28*	*4th*	*41·7*	*33·3*	*37·7*	—	*3*	*0·39*	*10*	—	*0·6*	—	*8*	4	24	*	*	*	*	*Camden Square.*
7. *a*, ENGLAND, N.W.														2·2	—	29	*	*	*	*	*	*	Hoylake.
p Aspatria (Mealsgate)	487	44	7th	26	5th	40·9	31·1	36·2	- 4·2	3	0·80	20	- 4	2·2	—	30	5	20	39·4	*	45·6	*	Aspatria.
p Newton Rigg	559	43	3rd	23	5th	39·4	28·7	34·3	- 4·6	2	0·34	9	- 13	2·0	+ 0·8	27	6	16	39·3	-1·0	44·7	+1·0	Newton Rigg.
p Stonyhurst	375	43	9th	23	6th	40·0	30·0	35·2	- 5·4	5	0·70	18	- 8	1·9	+ 0·9	25	6	21	*	*	*	*	Stonyhurst.
p Blackpool	66	47	8th	26	5, 6	42·0	30·4	36·4	- 5·2	4	0·42	11	- 8	2·9	+ 1·9	38	5	16	41·3	*	48·3	*	Blackpool.
a Southport	37	44	3, 8	27	5, 6	40·7	30·9	36·0	- 5·4	5	0·66	17	- 1	3·0	+ 1·9	39	6	16	36·1	-3·6	44·1	+0·5	Southport.
a Liverpool (Bidston)	188	45	3, 7	30	6, 7	41·7	33·0	37·5	- 4·2	5	0·59	15	+ 1	*2·8*	—	*37*	*	*	*	*	*	*	*Liverpool.*
a Hawarden Bridge	22	47	3rd	22	6th	42·1	29·9	36·2	- 6·6	5	0·72	18	+ 5	*0·2*	—	*3*	6	22	36·9	-3·8	46·8	+0·9	*Manchester (City)*
p Manchester (Whit. Pk.)	125	43	9th	23	6th	39·0	29·7	34·5	- 6·8	5	0·57	15	0	*0·0*	*- 0·4*	*0*	*	*	*	*	*	*	*(Whit. Park)*
b, NORTH WALES.																							
p Llandudno	71	49	3rd	28	6th	45·1	35·3	40·4	- 3·7	5	0·43	11	- 6	2·0	+ 0·7	26	*	*	*	*	*	*	Llandudno.
a Holyhead	15	48	7th	32	6, 7	46·0	38·6	42·5	- 2·1	5	0·59	15	- 8	*2·3*	—	*30*	*	*	*	*	*	*	*Holyhead.*
p Bettws-y-Coed	148	45	3, 7, 8	25	6th	41·7	30·9	36·5	- 7·2	6	0·85	22	—	1·2	—	16	*	*	39·4	-2·3	46·9	+1·1	Bettws-y-Coed.
														2·8	—	36							Aberdovey.

† Earth temperature at 3 ft.

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.		Deviation from Normal.	Bright Sunshine. Hours per Day. Daily Mean	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. a, SOUTH WALES														2·5	—	32	*	*	*	*	*	*	Aberystwyth.
a Llangammarch Wells	550	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	Llangammarch.
a Pembroke	149	48	7,8	33	7th	46·3	38·4	42·5	− 3·5	6	0·97	25	+ 2	2·1	+ 0·5	27	*	*	*	*	*	*	Pembroke.
p Cardiff	202	46	8th	25	7th	42·0	31·1	36·8	− 4·7	3	0·51	13	− 12	*3·7*	—	*47*	6	20	38·1	−4·4	47·7	+1·1	*Cardiff.*
b. ENGLAND, S.W.																							
a Clifton	229	44	7-9	23	7th	41·1	29·6	35·6	− 7·0	3	0·37	9	− 11	*3·5*	—	*44*	6	21	*	*	*	*	*Clifton.*
a Shaftesbury	722	44	8th	27	5,7	40·0	30·0	35·2	− 5·8	3	0·42	11	− 9	*	*	*	*	*	37·7	*	46·2	*	Shaftesbury.
a Arlington	613	45	3,7	26	7th	42·4	31·7	37·3	− 5·0	4	0·91	23	− 12	*	*	*	*	*	*	*	*	*	Arlington.
a Newquay	*190*	*49*	*8th*	*28*	*6,7*	*46·3*	*35·3*	*41·0*	− *5·4*	*6*	*1·16*	*29*	+ *7*	2·0	+ 0·1	25	*	*	45·0	*	49·8	*	Newquay.
a Cullompton	202	46	8th	22	7th	42·9	28·6	36·0	− 6·4	4	0·69	17	− 4	2·9	+ 1·5	36	7	16	39·9	*	*	*	Cullompton.
a Portland Bill	19	49	7-9	34	6th	45·3	36·6	41·1	− 4·0	3	0·47	12	—	*3·8*	—	*48*	*	*	*	*	*	*	*Weymouth.*
p Plymouth	116	48	9th	29	7th	44·6	33·9	39·5	− 5·6	3	0·52	13	− 11	3·3	+ 1·6	41	*	*	40·0	−5·6	48·3	*	Plymouth.
a Falmouth	167	48	3rd	31	6,7	45·4	35·7	40·7	− 5·6	6	1·68	43	+ 11	2·2	+ 0·3	28	4	23	43·7	*	49·6	*	Falmouth.
9. IRELAND, N.																							
a, West .. *a* Malin Head	208	49	6th	35	9th	45·3	39·3	42·4	− 0·8	7	0·98	25	+ 6	*0·7*	—	*10*	*	*	*	*	*	*	*Malin Head.*
a Blacksod Point ..	327	48	5,6	35	9th	45·7	39·9	42·9	− 1·9	7	1·50	38	+ 5	*	*	*	*	*	*	*	*	*	* *
p Markree Castle ..	122	49	7th	29	8th	44·9	34·9	40·1	− 1·6	7	2·03	52	+ 26	0·8	− 0·5	11	3	25	44·5	*	47·9	*	Markree Castle.
a Birr Castle	175	46	5-7	28	5th	43·0	33·0	38·2	− 3·5	6	1·10	28	+ 10	*1·0*	− *0·7*	*13*	*	*	*	*	*	*	*Birr Castle.*
b, East .. *p* Armagh	196	45	6,7	31	5th	42·7	34·3	38·7	− 2·8	6	0·93	24	+ 7	1·8	+ 0·4	24	3	27	43·4	+1·9	47·8	+2·0	Armagh.
a Donaghadee	101	46	6,7	36	4,9	44·3	37·6	41·1	− 1·7	5	0·80	20	+ 2	*	*	*	*	*	*	*	*	*	* *
														*	*	*	3	27	44·0	+1·5	47·9	+1·6	Trinity Coll.
10. IRELAND, S.														2·1	+ 0·3	28	4	21	*	*	*	*	Phœnix Park.
a. East .. *p* Dublin, City	47	47	7th	33	4th	44·1	36·4	40·4	− 3·7	6	1·10	28	+ 15	*	*	*	2	30	*	*	*	*	Dublin City.
a Kilkenny	212	47	7th	29	4th	43·0	33·3	38·3	− 3·9	6	1·23	31	+ 12	*	*	*	*	*	*	*	*	*	* *
a Waterford	20	48	6,7	33	5,8	44·1	35·6	40·0	− 3·4	6	1·02	26	+ 2	*	*	*	*	*	*	*	*	*	* *
a Seskin, Carrick-on-Suir	*541*	*46*	*7th*	*32*	*9th*	*42·7*	*35·7*	*39·3*	—	*5*	*0·93*	*24*	—	*1·7*	—	*22*	2	30	*	*	*	*	*Seskin.*
b, West .. *a* Birr Castle	175	46	5-7	28	5th	43·0	33·0	38·2	− 3·5	6	1·10	28	+ 10	1·0	− 0·7	13	*	*	*	*	*	*	Birr Castle.
a Foynes	50	50	7th	35	3rd	46·3	38·1	42·4	− 1·8	7	0·94	24	− 1	*	*	*	*	*	*	*	*	*	* *
a Cahir	198	47	7th	29	8th	43·4	34·4	39·1	− 4·1	6	0·81	21	—	*	*	*	*	*	*	*	*	*	* *
a Killarney	174	50	7th	33	5th	46·6	36·9	41·9	− 2·6	7	1·21	31	− 8	*	*	*	*	*	*	*	*	*	* *
a Valencia	30	50	7th	33	5th	47·6	39·9	43·9	− 2·6	7	0·94	24	− 12	1·5	− 0·1	19	*	*	*	*	*	*	Valencia.
a Roche's Point	32	49	5,7	36	9th	46·4	38·7	42·7	− 2·9	6	0·54	14	− 15	1·8	—	23	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	49	3rd	36	6,7	47·1	40·4	43·9	− 4·7	5	0·80	20	− 2	2·2	+ 0·3	27	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	51	8th	38	3,8	47·1	40·4	43·9	− 2·4	3	0·59	15	− 8	2·3	+ 0·1	28	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	51	8th	40	5th	46·6	42·0	44·4	− 2·4	4	0·71	18	− 7	2·5	+ 0·9	31	0	31	43·5	−3·4	49·3	−1·2	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, December 9th, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Above Ground.	Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.		Date and Hour, G.M.T.		Highest Gust with Date and Time, G.M.T.		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.			m/s.	d.	h. m.
1. SCOTLAND, E.																		
Dyce	305	75	‡15**	—	—	—	—	13	50	44	61	—	7	9th	19h.	17	4th	14 . 0
Aberdeen*	153	105	{37, 52}†	—	—	9th	12	41	68	47	0	E.	13	9th	22h.	21	9th	20 . 10
Edinburgh	485	39	31	—	—	—	—	50	104	14	0	NW. by W.	9	4th	6h.	17	9th	17 . 20
6 SCOTLAND, W.																		
Eskdalemuir	825	50	22	—	—	4, 9	6	37	30	95	0	ENE.	12	9th	17h.	19	9th	16 . 37
Paisley	188	81	52	—	—	9th	1	21	84	62	0	E.	11	9th	21h.	22	9th	20 . 55
2. ENGLAND, N.E.																		
Alnwick Castle	340	70	17	—	—	—	—	37	70	61	0	ESE.	10	9th	16h.	17	9th	15 . 40
South Shields	72	61	12	—	—	9th	9	41	80	38	0	SE. by E.	15	9th	13h.	20	9th	14 . 30
Spurn Head	66	40	‡	—	—	4, 9	4	52	35	13	64	N.	12	4th	13h.	16	4th	14 . 10
3. ENGLAND, E.																		
Gorleston	52	42	‡	—	—	-	—	—	—	—	—	—	—	—	—	—	—	—
Shoeburyness	103	90	‡	—	—	9th	4	67	86	11	0	SSE.	12	9th	11h.	15	5th	8 . 5
4. MIDLAND COUNTIES.																		
Benson	270	84	‡	—	—	—	—	24	72	68	4	ESE.	10	9th	4h	14	9th	4 . 30
5. ENGLAND, S.E.																		
Dover	271	40	‡	—	—	5, 6, 9	17	80	39	22	10	—	14	5th	10h.	21	5th	10 . 0
Warlingham	642	33	‡	—	—	—	—	4	138	18	8	—	6	9th	14h.	12	9th	13 . 30
Brighton	261	53	6	—	—	—	—	19	100	34	15	—	9	9th	8h.	15	9th	7 . 58
Kew Observatory ..	82	65	{6, 22}†	—	—	—	—	8	140	20	0	SW. by S.	7	9th	14h.	12	9th	13 . 44
South Kensington‖ ..	123	92	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7. ENGLAND, N.W.																		
Carnforth	246	56	23	—	—	—	—	7	42	77	42	—	9	9th	10h.	15	9th	10 . 50
Southport	80	62	48	—	—	4, 9	9	49	97	13	0	NNW.	13	4th	10h.	17	9th	9 . 55
Holyhead*	60	40	‡	—	—	3, 4, 9	26	76	66	0	0	E. by S.	13	9th	7h.	17	4th	4 . 30
8. ENGLAND, S.W.																		
Pendennis Castle§ ..	256	65	24	—	—	9th	5	40	101	22	0	SW.	13	9th	23h.	27	9th	7 . 37
Plymouth	185	88	2	—	—	—	—	27	97	44	0	—	9	8th	8h.	17	9th	9 . 35
Lyme Regis	556	61	‡	—	—	—	—	36	79	41	12	—	11	5th	19h.	15	9th	11 . 5
10. IRELAND, S.																		
Quilty	100	40	‡	—	—	8, 9	16	45	29	0	78	—	16	9th	1h.	28	9th	—
Weaver Pt.	160	30	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11. ENGLISH CHANNEL.																		
Scilly*	150	{32, 19}	‡	9th	4	8, 9	21	45	53	45	0	NW. by N.	20	9th	9h.	29	9th	4 . 32

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.

† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof

‖ The Anemograph at S. Kensington was dismounted on November 9th.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

FORTY-NINTH WEEK—December 3rd to December 9th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L
			Means of				Accumulated Number of Day-Degrees.												
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	50	24	78·9	73·7	76·4	− 0·9	2	− 8	33	+ 5	5	0	0·88	22	− 17	0·6	−0·1	10	1011
Eastern.																			
1. SCOTLAND, EAST ...	49	16	78·2	71·9	75·2	− 1·4	0	− 9	43	+ 9	4	− 1	0·96	24	+ 4	1·2	+0·1	18	1012
2. ENGLAND, N.E.	48	23	78·2	72·9	75·7	− 1·8	0	− 11	36	+ 10	4	0	0·77	19	+ 5	1·8	+0·5	25	1012
3. ENGLAND, EAST ...	48	26	78·3	73·6	76·1	− 1·2	0	− 13	32	+ 2	4	− 1	0·52	13	− 1	0·7	−0·7	10	1011
4. MIDLAND COUNTIES ...	47	21	77·5	71·0	74·4	− 2·8	0	− 13	53	+ 22	3	− 1	0·42	11	− 4	1·8	+0·5	23	1012
5. ENGLAND, S.E.	49	20	78·6	73·1	76·0	− 2·4	0	− 19	36	+ 15	3	− 2	0·45	11	− 7	1·8	+0·3	23	1012
Western.																			
6. SCOTLAND, WEST ...	47	25	79·2	73·9	76·7	− 1·6	3	− 12	32	+ 13	5	0	0·77	20	− 14	1·9	+0·8	25	1013
7. ENGLAND, N.W.	49	22	78·4	72·9	75·8	− 2·5	0	− 15	35	+ 16	5	0	0·61	16	− 7	2·2	+1·1	28	1012
8. ENGLAND, S.W.	49	22	79·3	73·4	76·5	− 2·7	4	− 20	35	+ 20	4	− 1	0·73	18	− 11	2·5	+0·9	32	1013
9. IRELAND, NORTH ...	49	28	79·8	75·5	77·8	− 0·5	6	− 9	22	+ 2	6	0	1·22	31	+ 8	1·3	−0·1	18	1012
10. IRELAND, SOUTH ...	50	28	80·2	75·4	77·9	− 1·4	8	− 17	23	+ 8	6	+ 1	0·99	25	− 1	1·6	0·0	21	1014
11. ENGLISH CHANNEL ...	51	36	81·3	77·9	79·7	− 1·5	19	− 18	3	0	4	− 1	0·70	18	− 9	2·3	+0·4	29	1014

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 1 Week, December 3rd to December 9th, 1916.

0. SCOTLAND, NORTH ...	50	24	78·9	73·7	76·4	− 0·9	2	− 8	33	+ 5	5	0	0·88	22	− 17	0·6	−0·1	10	1011
Eastern.																			
1. SCOTLAND, EAST ...	49	16	78·2	71·9	75·2	− 1·4	0	− 9	43	+ 9	4	− 1	0·96	24	+ 4	1·2	+0·1	18	1012
2. ENGLAND, N.E.	48	23	78·2	72·9	75·7	− 1·8	0	− 11	36	+ 10	4	0	0·77	19	+ 5	1·8	+0·5	25	1012
3. ENGLAND, EAST ...	48	26	78·3	73·6	76·1	− 1·2	0	− 13	32	+ 2	4	− 1	0·52	13	− 1	0·7	−0·7	10	1011
4. MIDLAND COUNTIES ...	47	21	77·5	71·0	74·4	− 2·8	0	− 13	53	+ 22	3	− 1	0·42	11	− 4	1·8	+0·5	23	1012
5. ENGLAND, S.E.	49	20	78·6	73·1	76·0	− 2·4	0	− 19	36	+ 15	3	− 2	0·45	11	− 7	1·8	+0·3	23	1012
Western.																			
6. SCOTLAND, WEST ...	47	25	79·2	73·9	76·7	− 1·6	3	− 12	32	+ 13	5	0	0·77	20	− 14	1·9	+0·8	25	1013
7. ENGLAND, N.W.	49	22	78·4	72·9	75·8	− 2·5	0	− 15	35	+ 16	5	0	0·61	16	− 7	2·2	+1·1	18	1012
8. ENGLAND, S.W.	49	22	79·3	73·4	76·5	− 2·7	4	− 20	35	+ 20	4	− 1	0·73	18	− 11	2·5	+0·9	32	1013
9. IRELAND, NORTH ...	49	28	79·8	75·5	77·8	− 0·5	6	− 9	22	+ 2	6	0	1·22	31	+ 8	1·3	−0·1	18	1012
10. IRELAND, SOUTH ...	50	28	80·2	75·4	77·9	− 1·4	8	− 17	23	+ 8	6	+ 1	0·99	25	− 1	1·6	0·0	21	1014
11. ENGLISH CHANNEL ...	51	36	81·3	77·9	79·7	− 1·5	19	− 18	3	0	4	− 1	0·70	18	− 9	2·3	+0·4	29	1014

THE YEAR.—Aggregates, &c., for the Period of 49 Weeks, January 2nd to December 9th, 1916.

0. SCOTLAND, NORTH ...	81	20	83·9	78·2	81·0	+ 0·2	2039	− 49	532	−170	256	+ 5	53·46	1356	+122		−0·6	21	1009
Eastern.																			
1. SCOTLAND, EAST ...	82	7	84·5	77·5	80·9	− 0·1	2171	−161	741	− 65	209	+18	39·38	1001	+267	3·2	−0·6	26	1009
2. ENGLAND, N.E.	84	20	85·7	78·8	82·1	+ 0·3	2735	+118	482	−104	184	+10	25·79	657	+ 63	3·5	−0·6	29	1011
3. ENGLAND, EAST ...	83	22	86·4	79·2	82·7	+ 0·3	3033	+ 12	450	−201	183	+15	26·10	662	+ 97	3·8	−0·7	31	1013
4. MIDLAND COUNTIES ...	84	21	86·5	78·6	82·4	+ 0·3	2983	+ 50	556	−126	178	+12	27·35	698	+ 69	3·5	−0·5	28	1012
5. ENGLAND, S.E.	86	15	86·9	79·8	83·2	+ 0·1	3295	+ 9	383	− 86	176	+15	30·50	776	+133	4·2	−0·4	34	1013
Western.																			
6. SCOTLAND, WEST ...	83	17	85·3	78·9	82·0	+ 0·2	2587	+ 38	436	− 90	220	+20	43·22	1103	− 32	3·6	−0·3	30	1011
7. ENGLAND, N.W.	83	8	85·7	79·6	82·5	+ 0·2	2860	+ 70	373	− 94	195	+10	34·60	881	+ 50	3·6	−0·4	29	1012
8. ENGLAND, S.W.	84	17	86·6	80·1	83·1	+ 0·1	3175	+ 38	350	− 17	192	+ 8	40·12	1026	+117	4·2	−0·3	34	1013
9. IRELAND, NORTH ...	81	18	85·4	79·3	82·3	+ 0·2	2708	+ 44	386	− 50	235	+17	38·81	992	+ 80	3·2	−0·5	26	1011
10. IRELAND, SOUTH ...	85	20	86·6	80·2	83·3	+ 0·3	3211	+125	283	− 51	241	+47	42·34	1071	+129	3·8	−0·3	31	1013
11. ENGLISH CHANNEL ...	80	30	87·0	81·9	84·4	0·0	3716	+ 16	98	− 18	192	− 5	33·32	842	+ 77	5·0	−0·4	40	1014
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics, South Kensington, S.W., December 14th, 1916.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE. 197

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

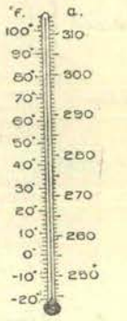
PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 50. SUNDAY, DECEMBER 10TH, TO SATURDAY, DECEMBER 16TH, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE FIFTIETH WEEK OF 1916.

This period was remarkable chiefly for the general prevalence of calms and light variable breezes in all parts of the British Isles. In other respects the conditions were of a seasonable, wintry character—dull, cold, frosty and foggy. Many localities were sunless throughout the week, others had less than an hour per day of sunshine, and only a few stations on the west coast of Wales had 3 hours a day. Temperature was everywhere below the normal, by less than 1 a. in Scotland North, but by as much as 3 a. to nearly 5 a. in the majority of districts. There were only a few instances of maxima above 280 a., while from the 13th to the 16th there were numbers of records as low as 270 a. to 273 a. Sharp night frosts were experienced extensively, the thermometer in the shade sinking to between 265 a. and 268 a. in several districts. Along the coasts the sea water was in most localities rather colder than usual, but everywhere it was appreciably warmer than the air, by 6 a. on the Cornish coast, and from 4 a. to 5 a. in several other neighbourhoods. Precipitation, in the form of rain, snow and hail, was very unequally distributed, Scotland East and England North-East returning a large excess, England East and South-East and the Channel a normal quantity, and all other districts a marked deficiency. Several places had no precipitation, while Alnwick had nearly four times, and Tynemouth nearly five times the normal quantity. Falls of more than 10 mm. on any day were very uncommon. Thunderstorms visited Falmouth on the 10th, and Dublin on the 12th. Fogs were frequent, extensive, and at times dense, that of the 16th being one of the most widespread and inconvenient of recent years. A sun pillar was observed at Oxford on the 10th.



WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 5.) *	Mean Value.	Frequency (Max. 7.)	Mean Value.
		m/s		m/s		m/s		m/s		m/s		m/s		m/s		m/s
South	1	2·2	2	2·1	3	3·0	3	0·6	2	1·0	1	1·4	0	—	0	—
North	6	4·8	4	1·9	3	0·8	4	1·5	4	3·6	6	3·6	4	1·9	6	4·3
West	3	3·1	3	3·7	4	2·2	4	0·8	1	1·3	3	3·5	4	4·5	2	3·1
East	4	3·8	2	1·6	3	3·5	3	1·5	6	3·2	3	4·0	1	11.2	5	1·9
Calm	0	—	0	—	0	—	0	—	0	—	0	—	0	—	1	—

* 5 days only.

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c. is printed on a separate sheet. *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel
Comparison with normal for the time of year ...	Warmth ...	Moderate	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Very deficient	Deficient	Very deficient	Deficient
	Rainfall ...	Light	Heavy	Heavy	Moderate	Light	Moderate	Light	Very light	Light	Light	Light	Moderate
	Sunshine ...	Moderate	Moderate	Moderate	Scanty	Scanty	Scanty	Abundant	Abundant	Moderate	Abundant	Abundant	Moderate

II.—THE WINTER SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

WINTER. 2 weeks from Dec. 3rd, 1916.	Warmth ...	0, 1, 1	0, 0, 2	0, 0, 2	0, 1, 1	0, 0, 2	0, 0, 2	0, 0, 2	0, 0, 2	0, 0, 2	0, 1 1	0, 0, 2	0, 0, 2
	Rainfall ...	0, 0, 2	2, 0, 0	1, 1, 0	0, 2, 0	0, 1, 1	0, 2, 0	0, 0, 2	0, 1, 1	0, 1, 1	1, 0, 1	0, 1, 1	0, 2, 0
	Sunshine ...	0, 2, 0	0, 2, 0	1, 1 0	0, 0, 2	1, 0, 1	0, 1, 1	2, 0, 0	2, 0, 0	1, 1, 0	1, 1, 0	1, 1, 0	0, 2, 0

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.

Increment of 1 a. = increment of $\frac{5}{9}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(9893—19.) Wt. 79a—736. 450. 12/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts	Lowest Reading.	Mean	Deviation from Average.	Mean.	Deviation from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.																							
p Baltasound	*31*	—	—	—	—	—	—	—	—	—	—	—	—	0·4	- 0·4	7	*	*	*	*	*	*	*Baltasound.*
a, Islands .. a Lerwick	54	48	10th	33	10th	43·3	37·6	40·6	- 0·1	7	1·06	27	—	0·4	- 0·4	7	*	*	*	*	*	*	Deerness.
a Stornoway	51	42	10, 11, 16	34	12, 13	40·6	35·1	38·0	- 2·3	5	0·83	21	- 15	1·2	+ 0·3	19	*	*	*	*	*	*	Stornoway.
a Castlebay, Barra Isd.	*37*	*44*	*19th*	*37*	*15th*	*43·1*	*39·0*	*41·1*	*- 2·2*	*3*	*0·52*	*13*	—	*1·1*	—	*17*							*Castlebay.*
b, Mainland. a Wick	81	44	10–12, 16	32	16th	43·4	36·0	39·9	+ 0·3	6	1·07	27	+ 10	*	*	*	*	*	*	*	*	*	
p Strathpeffer	200	41	11, 14	32	12th	39·7	34·0	37·0	- 0·7	4	0·47	12	- 7	*	*	*	*	*	*	*	*	*	Strathpeffer.
p Glencarron	500	40	14th	30	13th	37·6	32·6	35·2	- 2·7	5	0·82	21	- 37	*	*	*	*	*	*	*	*	*	
p Fort Augustus	68	42	10th	29	15th	40·1	33·6	37·0	- 2·0	3	0·32	8	- 24	0·0	- 0·3	0	*	*	*	*	*	*	Fort Augustus.
p Fort William	171	42	10, 14	31	15th	40·1	33·1	36·7	- 3·9	2	0·10	3	- 53	*		*	*	*	*	*	*	*	
1. SCOTLAND, E.																							
p Gordon Castle	101	42	10, 14	27	16th	39·1	31·9	35·6	- 3·5	6	0·88	22	+ 7	0·3	—	5	5	15	37·3	-1·5	41·7	+0·3	Crathes.
a Nairn	*82*	*41*	*10th*	*22*	*10th*	*38·3*	*30·3*	*34·5*	*- 3·8*	*6*	*1·16*	*29*	*+ 16*	*0·4*	—	*6*	*	*	*	*	*	*	*Gordon Castle.*
a Nairn	82	41	10th	22	10th	38·3	30·3	34·5	- 3·8	6	1·16	29	+ 16	0·4	—	6	*	*	*	*	*	*	Nairn.
a Aberdeen	46	43	10, 11	29	16th	40·3	34·4	37·5	- 1·6	6	1·81	46	+ 29	0·2	- 1·1	3	2	25	*	*	‡42·9	+0·2	Aberdeen.
a Balmoral	930	37	10, 15	23	16th	35·9	29·6	32·9	- 2·4	7	1·16	29	+ 10	*	*	*	4	20	*	*	*	*	Balmoral.
p Crieff	432	43	14th	27	15th	40·1	31·3	35·9	- 2·3	5	0·72	18	- 6	1·3	—	19	*	*	*	*	*	*	Balruddery.
a Leith	18	43	10th	30	16th	40·9	33·3	37·3	- 2·8	6	0·96	25	+ 14	*	*	*	*	*	*	*	*	*	
a West Linton	769	37	10, 14, 16	20	15, 16	36·1	28·0	32·2	- 3·2	5	0·69	18	—	*1·3*	—	*19*	7	14	*	*	*	*	*West Linton.*
p Marchmont	498	40	10, 16	25	16th	38·6	31·9	35·4	- 2·3	5	1·81	46	+ 31	1·0	- 0·4	14	2	22	*	*	*	*	Marchmont.
a Edinburgh	*441*	*?43*	*11th*	*31*	*16th*	*40·3*	*33·6*	*37·1*	—	*4*	*1·32*	*84*	—	2·0	—	29	2	28	*	*	*	*	Edinburgh.
6. a SCOTLAND, W.																							
a Poltalloch	132	41	10, 11	—	—	38·9	—	—	—	3	0·27	7	- 25	*	*	*	*	*	*	*	*	*	
p Glasgow Observatory	180	42	14th	28	15th	39·4	33·3	36·5	- 3·6	4	0·77	20	- 3	0·5	0·0	7	4	19	*	*	*	*	Glasgow.
p Rothesay	170	42	12th	31	15th	40·1	34·3	37·3	- 3·4	5	0·42	11	- 17	*1·5*	—	*22*	4	24	38·4	*	44·6	+0·6	*Rothesay.*
a Kilmarnock	90	42	14th	19	15th	38·7	29·3	34·2	- 6·5	4	0·36	9	—	*0·7*	—	*10*	*	*	38·0	*	45·0	*	*Kilmarnock.*
a Colmonell	170	44	14th	20	15, 16	40·3	26·1	33·5	- 7·9	5	1·01	26	- 3	*	*	*	5	17	*	*	*	*	
a Dumfries	160	42	10, 14	26	15th	38·6	31·4	35·1	- 4·3	4	0·29	7	- 16	*1·1*	—	*16*	7	20	36·7	*	43·0	*	*Dumfries.*
Eskdalemuir	*794*	*38*	*14th*	*18*	*16th*	*36·3*	*27·4*	*32·0*	—	*3*	*0·35*	*9*	—	*1·9*	—	*28*	*	*	*	*	*	*	*Eskdalemuir.*
p Cally, Gatehouse	120	40	10, 12, 15	20	15th	39·6	27·6	33·8	- 5·9	4	0·35	9	- 22	*	*	*	*	*	*	*	*	*	
b. I. OF MAN. p Douglas	277	45	15th	31	15th	42·6	35·0	39·0	- 3·6	4	0·12	3	- 25	2·4	+ 1·0	33	4	25	*	*	*	*	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle	210	42	14th	22	16th	39·9	31·6	35·9	- 3·7	6	2·52	64	+ 47	1·5	—	21	4	18	36·8	-1·8	42·2	+0·6	Cockle Park.
a Tynemouth	71	43	12, 14	28	16th	41·1	33·9	37·6	- 2·5	6	1·97	50	+ 39	*	*	*	*	*	*	*	*	*	Tynemouth
p Durham	336	42	15th	20	16th	38·4	28·9	33·8	- 4·5	6	1·22	31	+ 20	1·2	- 0·2	17	4	14	*	*	*	*	Durham.
a North .. p Rounton	249	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	Rounton.
a West Witton	*605*	*38*	*13, 16*	*22*	*16th*	*36·4*	*29·4*	*33·0*	—	*7*	*0·48*	*12*	—	*	*	*	7	17	36·3	*	42·3	*	*West Witton.*
p Scarborough†	100	46	16th	32	16th	42·0	34·7	38·5	- 1·7	7	1·18	30	+ 17	0·7	—	10	*	*	*	*	47·7	*	Scarborough.
p York	56	41	13th	24	16th	38·4	29·7	34·2	- 5·3	5	0·38	10	- 1	0·9	+ 0·1	12	*	*	39·0	-2·3	44·8	0·0	York.
b, South .. a Spurn Head	26	44	10th	32	16th	41·1	35·9	38·6	- 2·0	6	0·57	15	+ 5	*0·1*	—	*1*	*	*	*	*	*	*	*Spurn Head.*
a Lincoln	58	40	13th	23	16th	37·9	30·1	34·2	- 4·8	4	0·13	3	- 8	*	*	*	*	*	36·3	-4·2	44·0	-0·9	Lincoln.
a Fulbeck	180	37	10, 12	23	16th	35·4	29·7	32·7	- 5·6	6	0·22	6	- 5	0·5	—	7	*	*	37·5	-3·9	45·0	-0·9	Rauceby.
														0·9	—	12	*	*	*	*	*	*	Skegness.
3. ENGLAND, E.																							
p Cromer	196	47	10th	26	15th	41·9	31·9	37·1	- 1·4	6	0·85	22	—	1·0	—	14	*	*	*	*	*	*	Cromer.
p Little Massingham	280	40	10, 11	23	14th	38·1	28·4	33·4	- 5·3	4	0·33	8	- 6	0·6	- 0·8	8	7	26	*	*	*	*	Lit. Massingham.
a, North .. a Yarmouth	13	44	10–13	29	14th	42·3	36·3	39·4	- 0·5	5	1·06	27	+ 14	0·7	—	9	*	*	40·7	-0·6	45·4	-0·5	Yarmouth.
a Norwich	93	43	10, 11	29	14, 15	39·6	32·3	36·1	- 3·1	5	0·57	14	—	*0·7*	—	*9*	6	26	39·0	*	*	*	*Norwich.*
a Geldeston	37	45	10, 11	26	14th	41·0	31·4	36·4	- 3·3	6	0·78	20	+ 8	1·1	- 0·5	14	*	*	*	*	*	*	Geldeston.
p Cambridge	41	41	11th	23	16th	37·6	29·9	33·9	- 5·3	3	0·23	3	- 3	0·0	- 1·3	0	7	21	38·7	-2·9	44·9	-0·9	Cambridge.
b, South .. a Clacton-on-Sea	54	44	11th	29	12, 14	39·9	33·7	36·9	- 3·4	3	0·43	11	—	0·7	—	9	2	23	40·9	-3·1	46·2	-1·6	Clacton.
a Rothamsted	424	38	10, 12	24	14–16	35·4	28·6	32·1	- 7·1	3	0·16	4	- 10	0·1	- 1·3	1	6	18	38·3	*	*	*	Rothamsted.
p Tottenham	51	41	10–12	26	14, 16	38·7	32·1	35·5	- 4·5	4	0·22	6	—	0·0	—	0	4	27	*	*	45·6	-1·5	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. a Harrogate	479	39	13th	27	16th	37·1	30·7	34·0	- 4·4	6	0·28	7	- 8	1·8	—	25	6	18	38·0	-2·7	41·9	-0·6	Harrogate.
p Buxton	*987*	*37*	*15th*	*18*	*16th*	*34·7*	*28·4*	*31·7*	*- 5·2*	*5*	*0·43*	*11*	*- 19*	*0·5*	—	*7*	5	15	34·8	-5·0	42·8	-1·9	*Buxton.*
														0·6	—	8	4	21	37·3	-3·2	44·2	-0·5	Sheffield.
a Bawtry	65	38	13, 14	22	16th	36·3	29·4	33·0	- 5·9	4	0·21	5	- 6	0·1	- 1·0	1	6	16	37·1	*	42·5	*	Worksop.
a Nottingham	82	40	15th	23	16th	36·6	29·6	33·2	- 6·1	4	0·21	5	- 7	0·0	—	0	4	19	35·8	-4·4	41·3	-2·0	Nottingham.
b, East .. p Birmingham, Edgbsn.	535	39	15th	28	16th	36·6	31·1	34·0	- 5·2	2	0·17	4	- 9	0·0	—	0	4	13	38·3	-4·0	45·5	-0·8	Birmingham.
a Raunds	203	39	12th	23	16th	35·4	27·6	31·7	- 7·2	2	0·10	3	—	*0·0*	—	*0*	7	18	4·00	*	47·4	*	*Raunds,*
p Oxford	208	41	10th	20	16th	34·9	28·7	31·9	- 8·1	1	0·06	2	- 10	0·5	- 0·9	7	5	15	*	*	*	*	Oxford
a Cheadle	646	41	16th	27	16th	37·1	29·7	33·6	- 4·6	4	0·48	12	- 5	*	*	*	7	18	*	*	*	*	Cheadle.
c, West .. p Shrewsbury	191	44	10, 16	—	—	41·1	—	—	—	2	0·12	3	—	*	*	*	5	17	*	*	*	*	Shrewsbury.
a Hereford§	291	38	15th	20	16th	35·0	27·6	31·5	- 8·2	0	0·00	0	- 13	*1·5*	—	*20*	7	12	35·7	*	42·6	*	*Malvern.§*
a Bath	66	40	12th	24	14, 16	36·1	27·9	32·2	- 8·8	1	0·07	2	- 15	*	*	*	*	*	38·1	-5·7	45·3	-2·4	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	37	10, 15	19	16th	33·4	26·0	29·9	- 9·1	2	0·33	8	- 9	0·6	—	8	5	21	40·8	-2·8	47·4	-0·2	Worthing.
a Margate	53	43	11th	32	14, 16	41·4	36·1	38·9	- 2·5	6	0·72	18	+ 6	0·0	- 1·1	0	6	15	37·4	*	45·9	*	Marlborough.
a Wisley, Surrey	150	42	10th	23	15th	36·3	30·0	33·3	- 7·2	3	0·16	4	—	0·7	- 0·8	9	1	28	40·8	-2·7	45·8	+0·1	Margate.
p Salisbury (Wilton)	180	39	10th	25	16th	34·4	28·9	31·8	- 7·9	2	0·02	1	- 19	0·5	—	6	7	14	39·4	-3·2	45·0	-1·2	Wisley.
a Tunbridge Wells	354	43	10th	27	16th	37·6	31·7	34·8	- 4·9	3	0·52	13	- 4	*	*	*	7	22	37·1	*	*	*	Salisbury.
														0·2	- 1·2	3	4	22	40·6	-1·4	45·9	*	Tunbridge Wells.
a Dungeness	21	44	10, 11	29	16th	41·6	36·7	39·3	- 2·8	6	1·10	28	+ 15	*	*	*	*	*	*	*	*	*	Littlestone.
p Hastings	178	45	10th	30	13, 16	41·3	34·1	37·8	- 4·2	6	1·67	42	+ 25	0·5	- 1·3	6	3	25	39·9	*	46·0	*	Hastings.
p Southampton	64	44	10th	25	14, 16	37·1	30·4	33·9	- 8·2	3	0·17	4	- 13	0·2	- 1·4	3	5	18	*	*	*	*	Southampton.
a Ventnor	59	45	10th	31	15, 16	39·6	34·0	36·9	- 7·4	4	0·93	24	+ 7	0·8	- 0·8	10	*	*	*	*	*	*	Ventnor.
LONDON. p Richmond (Kew Obs.)	18	42	10th	25	14th	37·8	31·3	34·7	- 5·8	4	0·25	6	- 5	0·1	- 1·1	1	5	23	37·9	-4·6	45·0	-1·5	Kew Obs.
a Westminster	*27*	*45*	*10th*	*29*	*16th*	*39·0*	*33·8*	*36·5*	*- 4·1*	*3*	*0·20*	*5*	*- 6*	*0·0*	*- 0·4*	*0*	3	25	*	*	*	*	*Westminster.*
a Greenwich	155	43	10th	27	14th	38·0	31·9	35·1	- 5·1	3	0·20	5	- 6	0·4	- 0·7	5	4	23	*	*	*	*	*Greenwich.*
a Hampstead	*450*	*40*	*10th*	*25*	*14th*	*35·8*	*29·8*	*32·9*	—	*4*	*0·28*	*7*	—	*0·3*	—	*4*	7	16	*	*	*	*	*Hampstead.*
a Camden Square	*110*	*42*	*10th*	*27*	*14th*	*37·9*	*31·7*	*34·9*	—	*2*	*0·22*	*6*	—	*0·0*	—	*0*	4	27	*	*	*	*	*Camden Square.*
7. a, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	40	10, 15	26	15th	37·4	29·3	33·5	- 6·0	7	0·47	12	- 11	1·5	—	20	*	*	*	*	*	*	Hoylake.
p Newton Rigg	559	38	10th	22	11, 16	35·6	26·7	31·3	- 6·7	3	0·29	7	- 15	1·0	—	14	7	20	37·5	*	44·0	*	Aspatria.
p Stonyhurst	375	40	10th	24	16th	36·9	29·1	33·2	- 6·4	2	0·10	3	- 22	0·8	- 0·3	11	7	18	37·6	-2·9	43·0	-0·1	Newton Rigg.
p Blackpool	66	42	13th	26	11, 16	38·3	29·6	34·1	- 6·4	2	0·10	3	- 15	2·1	+ 1·2	29	7	19	*	*	*	*	Stonyhurst.
a Southport	37	39	10, 13, 14	25	16th	39·7	29·9	33·4	- 7·1	3	0·15	4	- 14	2·2	+ 1·3	30	7	17	38·9	*	46·8	*	Blackpool.
a Liverpool (Bidston)	188	40	10, 13, 14	26	16th	38·7	31·3	35·2	- 5·9	3	0·09	2	- 12	1·8	+ 0·8	25	7	18	34·5	-5·6	41·9	-1·3	Southport.
a Hawarden Bridge	22	42	10th	24	16th	39·0	31·1	35·2	- 6·7	4	0·28	7	- 5	*1·8*	—	*24*	6	23	*	*	*	*	*Liverpool.*
p Manchester (Whit. Pk.)	125	40	12th	25	16th	37·7	31·1	34·5	- 5·7	4	0·26	7	- 9	*0·0*	—	*0*	4	25	35·8	-5·2	44·8	-0·5	*Manchester (City)*
														0·1	*- 0·3*	*1*	*	*	*	*	*	*	" (Whit. Park)
b. NORTH WALES.																							
p Llandudno	71	44	15th	29	11, 16	40·9	31·1	36·2	- 7·1	3	0·07	2	- 14	2·0	+ 0·8	27	*	*	*	*	*	*	Llandudno.
a Holyhead	15	47	15, 16	31	12th	43·9	33·1	38·7	- 5·0	4	0·11	3	- 19	*3·0*	—	*41*	*	*	*	*	*	*	*Holyhead.*
p Bettws-y-Coed	148	38	10th	23	16th	36·1	27·7	32·1	- 10·9	4	0·15	4	—	0·5	—	7	*	*	36·7	-5·3	45·1	-0·3	Bettws-y-Coed.
														3·0	—	40	*	*	*	*	*	*	Aberdovey.

† Earth temperature at 3 ft

§ The temperature on the grass refers to Hereford.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.		Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft Mean.	Earth 1 ft Deviation from average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from average	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														2·9		38	•	•	•	•	•	•	
a Llangammarch Wells	550	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	Aberystwyth.
a Pembroke	149	44	15th	30	12th	40·7	33·0	37·0	− 8·1	6	0·41	11	− 12	2·3	+ 0·8	30	•	•	•	•	•	•	Llangammarch.
p Cardiff	202	41	15th	21	14th	37·6	28·9	33·4	− 6·9	1	0·15	4	− 22	*0·4*	—	*5*	6	19	37·4	−5·0	45·8	−0·4	Pembroke.
																							Cardiff.
b, ENGLAND, S.W.																							
a Clifton	229	39	15th	26	14th	36·3	29·9	33·2	− 8·5	1	0·03	1	− 19	*0·3*	—	*4*	6	25	•	•	•	•	*Clifton.*
a Shaftesbury	722	35	10–12	26	14, 15	33·6	29·0	31·4	− 8·5	2	0·15	4	− 16	•	•	•	•	•	36·4	•	44·4	•	Shaftesbury.
a Arlington	613	40	16th	25	12, 14	38·3	27·7	33·2	− 8·3	0	0·00	0	− 35	•	•	•	•	•	•	•	•	•	Arlington.
a Newquay	*190*	*45*	*15th*	*29*	*13th*	*42·1*	*31·7*	*37·1*	− *8·7*	*4*	*0·43*	*11*	− *11*	2·0	+ 0·3	25	•	•	42·7	•	48·5	•	Newquay.
a Cullompton	202	39	10, 12	22	13, 14	35·9	27·3	31·8	− 9·7	1	0·13	3	− 19	0·0	− 1·3	0	7	20	38·5	•	•	•	Cullompton.
a Portland Bill	19	46	10th	30	15, 16	41·1	33·6	37·5	− 6·6	4	0·87	22	—	*1·0*	—	*13*	•	•	•	•	•	•	*Weymouth.*
p Plymouth	116	46	10th	27	13th	40·3	32·3	36·5	− 7·8	4	0·16	4	− 21	1·6	0·0	20	•	•	38·8	−6·6	46·7	•	Plymouth.
a Falmouth	167	47	15th	31	13–15	41·6	32·3	37·1	− 8·4	5	0·96	24	− 9	2·4	+ 0·6	30	5	25	40·5	•	47·7	•	Falmouth.
9. IRELAND, N.																							
a, West .. { *a* Malin Head	208	45	10, 15, 16	36	12th	43·6	38·0	40·9	− 1·7	5	0·51	13	− 6	*1·3*	—	*19*	•	•	•	•	•	•	*Malin Head.*
a Blacksod Point ..	327	43	14, 15	33	12th	41·9	35·3	38·7	− 5·4	6	1·27	32	− 1	•	•	•	•	•	•	•	•	•	•
p Markree Castle ..	122	43	14th	21	15th	40·6	26·9	34·0	− 6·9	2	0·19	5	− 21	2·1	+ 0·9	29	7	18	38·9	•	46·8	•	Markree Castle.
a Birr Castle ..	175	40	16th	23	16th	36·9	26·9	32·1	− 9·0	4	0·13	3	− 15	*2·2*	+ *0·7*	*30*	6	17	•	•	•	•	*Birr Castle.*
b, East .. { *p* Armagh	196	39	10, 14	26	14, 16	37·9	28·6	33·4	− 7·2	2	0·14	4	− 13	2·6	+ 1·3	36	4	22	40·4	−1·2	46·6	+1·2	Armagh.
a Donaghadee	101	44	13, 14	34	16th	42·4	37·3	40·0	− 2·1	5	0·43	11	− 7	•	•	•	5	21	40·8	−1·8	46·7	+0·9	Trinity Coll.
10. IRELAND, S.														1·7	0·0	23	6	17	•	•	•	•	Phœnix Park.
p Dublin, City	47	44	10th	28	15th	38·4	31·9	35·3	− 7·8	5	0·76	19	+ 7	•	•	•	6	25	•	•	•	•	Dublin City.
a, East .. { *a* Kilkenny	212	39	10th	19	16th	38·4	27·4	32·1	− 9·1	3	0·11	3	− 16	•	•	•	•	•	•	•	•	•	•
a Waterford	20	43	10–13	22	16th	41·6	28·7	35·4	− 7·2	0	—	—	− 24	•	•	•	•	•	•	•	•	•	•
a Seskin, Carrick-on-Suir	*541*	*41*	*16th*	*26*	*16th*	*36·3*	*29·1*	*32·8*	—	*1*	*0·06*	*2*	—	*2·5*	—	*35*	6	21	•	•	•	•	*Seskin.*
a Birr Castle	175	40	16th	23	16th	36·9	26·9	32·1	− 9·0	4	0·13	3	− 15	2·2	+ 0·7	30	6	17	•	•	•	•	Birr Castle.
a Foynes	50	42	11th	28	16th	39·1	32·0	35·7	− 7·7	4	0·52	13	− 12	•	•	•	•	•	•	•	•	•	•
a Cahir	199	40	16th	18	16th	35·3	26·1	30·9	−12·1	2	0·19	5	—	•	•	•	•	•	•	•	•	•	•
b, West .. { *a* Killarney	174	41	10th	21	16th	38·3	30·4	34·5	− 9·4	5	1·60	41	+ 1	•	•	•	•	•	•	•	•	•	•
a Cahirciveen (Val. Obs.)	30	44	10, 14, 16	28	16th	42·6	34·1	38·5	− 7·5	6	1·11	28	− 9	2·4	+ 1·0	32	•	•	•	•	•	•	Valencia.
a Roche's Point	32	42	10, 11, 16	30	16th	40·9	33·4	37·3	− 7·8	7	0·17	4	− 26	1·9	—	25	•	•	•	•	•	•	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	46	15, 16	37	10, 13	44·4	38·0	41·3	− 6·8	7	1·35	33	+ 10	2·6	+ 0·9	33	•	•	•	•	•	•	Scilly.
a Jersey, St. Aubins ..	25	47	16th	32	13th	44·7	35·9	40·5	− 4·7	7	0·83	21	− 2	2·1	0·0	26	•	•	•	•	•	•	St. Heliers.
a Guernsey (Villa Carey)	180	47	16th	32	13th	44·1	36·6	40·5	− 5·4	7	0·63	16	− 9	1·9	+ 0·4	24	4	27	42·0	−4·6	48·3	−1·5	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, December 16th, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Above Ground.	Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Gales, force 8 or more. Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	High Winds, forces 6 and 7. Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.	Date and Hour, G.M.T.	Highest Gust with Date and Time, G.M.T.
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.			m/s. d. h. m.
1. SCOTLAND, E.														
Dyce	305	75	‡15**	—	—	—	—	—	95	73	0	— 5	13th 22h.	15 13th 10 . 20
Aberdeen*	153	105 { 37 / 52 †		—	—	—	—	65	87	16	0	E. 10	10th 1h.	15 13th 10 . 35
Edinburgh	485	39	31	—	—	—	—	8	133	27	0	WNW. 6	14th 3h.	10 14th 2 . 10
6 SCOTLAND, W.														
Eskdalemuir	825	50	22	—	—	—	—	19	80	69	0	NNE. 8	14th 11h.	13 14th 3 . 25
Paisley	188	81	52	—	—	—	—	—	104	64	0	NNW. 5	14th 2h.	10 15th 23 . 15
2. ENGLAND, N.E.														
Alnwick Castle	340	70	17	—	—	—	—	—	—	—	—	— —	— —	— — —
South Shields	72	61	12	—	—	—	—	10	124	34	0	SE. by E. 7	11th 19h.	12 12th 20 . 30
Spurn Head	66	40	‡	—	—	—	—	—	—	—	—	— —	— —	— — —
3. ENGLAND, E.														
Gorleston	52	42	‡‡	—	—	—	—	—	—	—	—	— —	— —	— — —
Shoeburyness	103	90	‡	—	—	—	—	18	108	26	16	SE. 7	10th 5h.	10 11th 4 . 40
4. MIDLAND COUNTIES.														
Benson	270	84	‡	—	—	—	—	4	46	82	36	SE. by E. 7	10th 11h.	10 10th 0 . 25
5. ENGLAND, S.E.														
Dover	271	40	‡‡	—	—	—	—	33	80	55	0	— 8	10th 23h.	12 10th 22 . 55
Warlingham	642	33	‡‡	—	—	—	—	—	76	63	29	— 5	10th 4h.	9 10th 4 . 15
Brighton	261	53	6	—	—	—	—	6	127	35	0	— 6	10th 3h.	10 10th 11 . 5
Richmond (Kew Obs.)..	82	65 { 6 / 22 †		—	—	—	—	—	113	55	0	SE. by S. 4	10th 11h.	8 10th 5 . 0
South Kensington‖ ..	123	92	30	—	—	—	—	—	—	—	—	— —	— —	— — —
7. ENGLAND, N.W.														
Carnforth	246	56	23	—	—	—	—	—	10	158	0	— 3	14th 14h.	6 14th 13 . 40
Southport	80	62	48	—	—	—	—	12	124	32	0	ENE. 8	10th 7h.	11 10th 7 . 5
Holyhead*	60	40	‡	—	—	10, 14	16	36	103	14	0	NNE. 13	14th 14h.	16 14th 14 . 10
8. ENGLAND, S.W.														
Pendennis Castle§ ..	256	65	24	—	—	10th	8	34	79	47	0	SSW. 15	10th 4h.	22 10th 4 . 20
Plymouth	185	88	2	—	—	10th	7	20	111	30	0	— 14	10th 2h.	20 10th 1 . 40
Lyme Regis	556	61	‡	—	—	—	—	27	65	76	0	— 8	14th 23h.	15 10th 3 . 0
10. IRELAND, S.														
Quilty	100	40	‡‡	—	—	—	—	—	—	—	—	— —	— —	— — —
Weaver Pt.	160	30	‡‡	—	—	—	—	—	—	—	—	— —	— —	— — —
11. ENGLISH CHANNEL.														
Scilly*	150	{ 32 / 19 }	‡	—	—	10th	2	52	73	41	0	WNW. 13	10th 2h.	21 10th 0 . 55

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.

† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof ‖ The Anemograph at S. Kensington was dismounted on November 9th.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

FIFTIETH WEEK—December 10th to December 16th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
			Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	48	29	77·8	74·4	76·2	− 0·7	0	− 9	29	0	5	− 1	0·67	17	− 19	0·5	−0·1	8	994
Eastern.																			
1. SCOTLAND, EAST ...	43	20	76·7	72·6	74·8	− 1·5	0	− 8	48	+ 10	6	+ 1	1·15	29	+ 12	0·9	−0·1	13	992
2. ENGLAND, N.E.	46	20	77·1	72·9	75·1	− 1·9	0	− 9	44	+ 14	6	+ 3	1·02	26	+ 11	1·0	−0·2	14	991
3. ENGLAND, EAST ...	47	23	77·1	72·8	75·0	− 1·9	0	− 10	45	+ 11	4	0	0·51	13	+ 1	0·5	−0·9	7	990
4. MIDLAND COUNTIES ...	44	20	75·3	71·4	73·4	− 3·4	0	− 11	64	+ 28	3	− 1	0·17	4	− 10	0·5	−0·7	7	990
5. ENGLAND, S.E.	45	19	76·4	72·9	74·7	− 3·4	0	− 17	48	+ 25	4	0	0·59	15	0	0·4	−1·1	5	990
Western.																			
6. SCOTLAND, WEST ...	45	19	77·4	72·4	75·0	− 2·9	0	− 13	45	+ 23	4	− 1	0·45	12	− 20	1·5	+0·5	20	992
7. ENGLAND, N.W.	47	22	76·6	71·9	74·3	− 3·5	0	− 13	53	+ 29	4	− 1	0·20	5	− 15	1·6	+0·6	22	991
8. ENGLAND, S.W.	47	21	76·6	72·1	74·4	− 4·5	0	− 21	52	+ 26	3	− 2	0·32	8	− 19	1·9	+0·4	24	990
9. IRELAND, NORTH ...	45	21	77·8	73·1	75·5	− 2·6	0	− 14	39	+ 17	4	− 1	0·45	11	− 11	2·4	+1·1	32	993
10. IRELAND, SOUTH ...	44	18	76·8	71·9	74·4	− 4·7	0	− 23	52	+ 36	5	0	0·51	13	− 13	2·1	+0·5	27	992
11. ENGLISH CHANNEL ...	47	32	79·9	75·7	77·9	− 3·0	7	− 27	21	+ 17	7	+ 2	0·94	23	− 1	2·2	+0·4	28	989

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 2 Weeks, December 3rd to December 16th, 1916.

0. SCOTLAND, NORTH ...	50	24	78·4	74·1	76·3	− 0·8	2	− 17	62	+ 5	10	− 1	1·55	39	− 36	0·6	−0·1	9	1003
Eastern.																			
1. SCOTLAND, EAST ...	49	16	77·5	72·3	75·0	− 1·5	0	− 17	91	+ 19	10	0	2·11	53	+ 16	1·0	−0·1	15	1002
2. ENGLAND, N.E.	48	20	77·7	72·9	75·4	− 1·9	0	− 20	80	+ 24	10	+ 3	1·79	45	+ 16	1·4	+0·1	20	1002
3. ENGLAND, EAST ...	48	23	77·7	73·2	75·6	− 1·5	0	− 23	77	+ 13	8	− 1	1·03	26	0	0·6	−0·8	8	1001
4. MIDLAND COUNTIES ...	47	20	76·4	71·2	73·9	− 3·1	0	− 24	117	+ 50	6	− 2	0·59	15	− 14	1·1	−0·1	15	1001
5. ENGLAND, S.E.	49	19	77·5	73·0	75·4	− 2·9	0	− 36	84	+ 40	7	− 2	1·04	26	− 7	1·1	−0·4	14	1001
Western.																			
6. SCOTLAND WEST ...	47	19	78·3	73·2	75·9	− 2·2	3	− 25	77	+ 36	9	− 1	1·22	32	− 34	1·7	+0·7	23	1003
7. ENGLAND, N.W.	49	22	77·5	72·4	75·1	− 3·0	0	− 28	88	+ 45	9	− 1	0·81	21	− 22	1·9	+0·8	25	1002
8. ENGLAND, S.W.	49	21	78·0	72·8	75·5	− 3·6	4	− 41	87	+ 56	7	− 3	1·05	26	− 30	2·2	+0·7	28	1002
9. IRELAND, NORTH ...	49	21	78·8	74·3	76·7	− 1·5	6	− 23	61	+ 19	10	− 1	1·67	42	− 3	1·8	+0·5	25	1003
10. IRELAND, SOUTH ...	50	18	78·4	73·8	76·2	− 3·0	8	− 40	75	+ 44	11	+ 1	1·50	38	− 14	1·8	+0·2	24	1003
11. ENGLISH CHANNEL ...	51	32	80·6	76·8	78·8	− 2·3	26	− 45	24	+ 17	11	+ 1	1·64	41	− 10	2·3	+0·4	28	1002

THE YEAR.—Aggregates, &c., for the Period of 50 Weeks, January 2nd to December 16th, 1916.

0. SCOTLAND, NORTH ...	81	20	83·8	78·1	80·9	+ 0·2	2039	− 58	561	−170	241	+ 4	54·13	1373	+103	2·6	−0·5	21	1008
Eastern.																			
1. SCOTLAND, EAST ...	82	7	84·3	77·4	80·7	− 0·2	2171	−169	789	− 55	215	+19	40·53	1030	+279	3·2	−0·6	26	1009
2. ENGLAND, N.E.	84	20	85·5	78·7	82·0	+ 0·3	2735	+109	526	− 90	190	+13	26·81	683	+ 74	3·5	−0·6	28	1011
3. ENGLAND, EAST ...	83	22	86·2	79·1	82·5	+ 0·2	3033	+ 2	495	−190	187	+15	26 61	675	+ 98	3·7	−0·8	30	1012
4. MIDLAND COUNTIES ...	84	20	86·3	78·4	82·2	+ 0·2	2983	+ 39	620	− 98	181	+11	27·52	702	+ 59	3·4	−0·6	28	1012
5. ENGLAND, S.E.	86	15	86·7	79·7	83·1	+ 0·1	3295	− 8	431	− 61	180	+15	31·09	791	+133	4·1	−0·4	33	1013
Western.																			
6. SCOTLAND, WEST ...	83	17	85·1	78·8	81·9	+ 0·2	2587	+ 25	481	− 67	224	+19	43·67	1115	− 52	3·6	−0·3	29	1010
7. ENGLAND, N.W.	83	8	85·5	79·5	82·4	+ 0·2	2860	+ 57	426	− 65	199	+ 9	34·80	886	+ 35	3·6	−0·3	29	1011
8. ENGLAND, S.W.	84	17	86·4	79·9	82·9	0·0	3175	+ 17	402	+ 19	195	+ 6	40 44	1034	+ 98	4·1	−0·3	34	1013
9. IRELAND, NORTH ...	81	18	85·3	79·2	82·1	0·0	2708	+ 30	425	− 33	239	+16	39·26	1003	+ 69	3·2	−0·4	26	1010
10. IRELAND, SOUTH ...	85	18	86·4	80·0	83·1	+ 0·2	3211	+102	335	− 15	246	+47	42·85	1084	+116	3·8	−0·3	31	1013
11. ENGLISH CHANNEL ...	80	30	86·9	81·8	84·2	− 0·1	3723	− 11	119	− 1	199	− 3	34·26	865	+ 76	4·9	−0·5	40	1014
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg F			inches	mm.	mm	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON: SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics, South Kensington, S.W., December 21st, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 51. SUNDAY, DECEMBER 17TH, TO SATURDAY, DECEMBER 23RD, 1916.

Price 6d., Post free 7d.
Annual Subscription Post Paid £1 10s. 0d.

I.—THE FIFTY-FIRST WEEK OF 1916.

The first few days of the week marked a change from the quiet and foggy conditions of the preceding week to a more disturbed type with a corresponding absence of fogs and with much precipitation in the form of rain and snow. This resulted in an excess of rainfall over practically the whole country and a very decided excess in England East and South-East and the Midland Counties. In England South-East the total fall was 46 mm., nearly 400 per cent. of the normal. Falls of over 25 mm. in the day were fairly numerous, the largest being 44 mm. at Salisbury and 37 mm. at Shaftesbury both on the 20th. A good deal of snow fell in some districts during the week, but the reports received do not indicate that it lay to any great depth. The largest values were 17 cm. at Glasgow and 16 cm. at Dumfries, in each case on the morning of the 19th. A remarkable occurrence of glazed frost was noted at Dublin on Sunday the 17th and the same phenomenon was reported at Douglas on each of the first three days of the week and at Cahirciveen on the 18th. Sunshine was abundant in the English Channel, England South-west and Ireland North, but over the Eastern section of the country was below the normal. In the Midlands only 0·3 hour per day was measured. Temperature, both of the sea water round our coasts and also of the air, was deficient in all districts. Off the North-east coast of England the sea water stood at 276·5 a. and off Ireland South-west at 277·5 a., in each case about 3 a. below normal. The departures of air temperature below normal ranged up to a somewhat larger value than in the case of the sea, —4·8 a. in Ireland South, but in the English Channel the deficiency was only 1·5a. In this district the highest day temperatures were experienced, 286 a. being reached at Guernsey on the 23rd. In other parts of the country many places reported no temperature above 279 a. throughout the week. On the night of the 19th the low minimum value of 261 a. was recorded at West Linton and almost equally low values at some neighbouring stations.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.
		m/s		m/s		m/s		m/s		m/s		m/s		m/s		m/s
South	6	4·8	7	3·8	4	3·8	4	2·4	6	3·7	3	4·4	4	2·9	2	3·6
North	1	1·9	¼	0·7	3	1·2	3	1·0	1	2·9	3	3·8	3	1·6	4	0·9
West	2	3·0	5	2·4	4	2·6	6	1·7	5	6·0	5	6·4	6	5·3	2	7·0
East	5	4·7	2	2·7	1	4·5	1	2·7	2	2·1	2	2·9	1	0·8	4	1·3
Calm	0	—	0	—	1	—	0	—	0	—	0	—	0	—	1	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c. is printed on a separate sheet. *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel
Comparison with normal for the time of year ...	Warmth ...	Deficient	Very deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Deficient	Very deficient	Very deficient	Deficient
	Rainfall ...	Moderate	Moderate	Heavy	Very heavy	Very heavy	Very heavy	Heavy	Heavy	Heavy	Moderate	Moderate	Heavy
	Sunshine ...	Moderate	Moderate	Scanty	Scanty	Scanty	Scanty	Moderate	Moderate	Abundant	Abundant	Moderate	Abundant

II.—THE WINTER SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

WINTER. 3 weeks from D. c. 3rd. 1916.	Warmth ...	0, 1, 2	0, 0, 3	0, 0, 3	0, 1, 2	0, 0, 3	0, 0, 3	0, 0, 3	0, 0, 3	0, 0, 3	0, 1 2	0, 0, 3	0, 0, 3
	Rainfall ...	0, 1, 2	2, 1, 0	2, 1, 0	1, 2, 0	1, 1, 1	1, 2, 0	1, 0, 2	1, 1, 1	1, 1, 1	1, 1, 1	0, 2, 1	1, 2, 0
	Sunshine ...	0, 3, 0	0, 3, 0	1, 1, 1	0, 0, 3	1, 0, 2	0, 1, 2	2, 1, 0	2, 1, 0	2, 1, 0	2, 1, 0	1, 2, 0	1, 2, 0

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.
Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(9939—19.) Wt. 79a—736. 450. 12/16. D & S. G. 17/ 36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min. Ground Frosts.	Grass Min. Lowest Reading.	Earth 1 ft. Mean.	Earth 1 ft. Deviation from Average.	Earth 4 ft. Mean.	Earth 4 ft. Deviation from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.																							
a, Islands .. *p Baltasound*	37	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	*Baltasound.*
a Lerwick ..	54	44	21, 22, 23	31	18, 19	41·4	34·7	38·2	- 2·0	7	1·87	47	—	0·3	- 0·5	5	•	•	•	•	•	•	Deerness.
a Stornoway	51	43	22nd	29	19th	38·9	31·3	35·3	- 4·5	6	1·14	29	- 8	0·8	0·0	13	•	•	•	•	•	•	Stornoway.
a Castlebay, Barra Isd. ..	37	*45*	*22nd*	*33*	*18, 19, 20*	*41·7*	*35·4*	*38·7*	*- 4·0*	*7*	*1·89*	*48*	—	*0·8*	—	*12*	•	•	•	•	•	•	*Castlebay.*
b, Mainland. *a* Wick	81	43	20, 22	26	17th	41·1	30·0	35·8	- 3·2	5	0·59	15	- 2	•	•	•	•	•	•	•	•	•	
p Strathpeffer	200	41	22nd	23	0th	38·3	28·3	33·5	- 3·6	3	0·22	6	- 14	•	•	•	•	•	•	•	•	•	Strathpeffer.
p Glencarron	500	42	23rd	23	20th	37·0	28·6	33·0	- 4·0	5	0·74	19	- 41	•	•	•	•	•	•	•	•	•	
p Fort Augustus	68	42	23rd	29	17, 20	37·9	32·3	35·2	- 3·2	5	0·35	9	- 24	0·2	- 0·1	3	•	•	•	•	•	•	Fort Augustus.
p Fort William	171	41	22, 23	26	17th	38·0	31·3	34·8	- 5·2	7	0·82	21	- 36	•	•	•	•	•	•	•	•	•	
1. SCOTLAND, E.																							
p Gordon Castle	101	42	22nd	25	20th	37·4	28·7	33·2	- 5·2	2	0·10	3	- 13	1·0	—	16	6	11	35·0	- 3·4	40·6	0·0	Crathes.
a Nairn	82	40	21st	23	20th	36·3	26·3	31·5	- 6·0	4	0·14	4	- 9	*0·4*	—	*6*	•	•	•	•	•	•	*Gordon Castle.*
a Aberdeen	46	42	20th	25	20th	39·1	29·0	34·3	- 3·8	5	0·71	18	+ 1	1·1	- 0·1	17	•	•	•	•	•	•	Nairn.
a Balmoral	930	36	23rd	12	20th	33·9	23·4	28·9	- 5·9	4	0·40	10	- 8	1·1	—	17	6	21	•	•	41·9	- 0·4	Aberdeen.
p Crieff	432	40	22nd	23	20th	36·3	27·9	32·3	- 5·3	6	1·17	30	+ 6	•	•	•	7	10	•	•	•	•	Balmoral.
														1·4	—	21	•	•	•	•	•	•	Balruddery.
a Leith	18	41	22nd	29	20th	37·9	31·9	35·0	- 4·5	6	0·37	9	- 2	•	•	•	•	•	•	•	•	•	
a West Linton	769	38	22nd	11	20th	35·1	25·0	30·3	- 4·7	7	1·12	28	—	*0·5*	—	*7*	7	10	•	•	•	•	*West Linton.*
p Marchmont	498	41	22nd	21	19, 20	35·1	26·1	30·8	- 6·1	1	0·14	4	- 10	0·3	- 0·9	4	6	20	•	•	•	•	Marchmont.
a Edinburgh	*441*	*40*	*22, 23*	*27*	*19, 20*	*37·7*	*31·1*	*34·5*	—	*6*	*0·53*	*13*	—	1·0	—	15	4	20	•	•	•	•	Edinburgh.
6. *a* SCOTLAND, W.																							
a Poltalloch	132	46	22nd	—	—	38·9	—	—	—	7	1·81	46	+ 14	•	•	•	•	•	•	•	•	•	
p Glasgow Observatory	180	42	22nd	29	20th	37·9	32·6	35·4	- 3·9	7	1·52	39	+ 16	0·5	0·9	7	2	21	•	•	•	•	Glasgow.
p Rothesay	170	44	22nd	31	19th	39·6	33·6	36·7	- 3·5	6	1·90	48	+ 20	*0·9*	—	*13*	5	28	36·9	•	43·1	- 0·8	*Rothesay.*
a Kilmarnock	90	45	22nd	28	20th	38·3	32·1	35·3	- 4·9	7	1·88	48	—	*0·5*	—	*7*	•	•	36·1	•	43·3	•	*Kilmarnock.*
a Colmonell	170	41	21, 22, 23	25	17th	38·1	32·0	35·2	- 6·1	6	1·96	50	+ 21	•	•	•	5	21	•	•	•	•	
a Dumfries	160	42	22nd	28	17, 19, 20	37·4	30·7	34·2	- 4·5	7	1·69	43	+ 21	*1·0*	—	*14*	6	22	35·0	•	41·2	•	*Dumfries.*
Eskdalemuir	*794*	*37*	*22nd*	*35*	*18th*	*33·9*	*28·1*	*31·1*	—	*7*	*1·42*	*36*	—	*0·7*	—	*10*	•	•	•	•	•	•	*Eskdalemuir.*
p Cally, Gatehouse	120	43	22nd	23	17th	37·7	29·3	33·7	- 5·2	7	2·53	64	+ 34	•	•	•	•	•	•	•	•	•	
b, I. OF MAN. *p* Douglas	277	45	22, 23	31	19th	41·1	33·6	37·5	- 4·4	6	1·91	49	+ 22	1·4	+ 0·1	20	5	25	•	•	•	•	Douglas.
2. ENGLAND, N.E.																							
a North .. *a* Alnwick Castle	210	40	22nd	13	20th	36·7	24·3	30·8	- 7·9	4	0·56	14	- 2	0·2	•	3	7	11	33·6	- 4·6	41·4	0·0	Cockle Park.
a Tynemouth	71	43	22nd	22	20, 21	37·7	28·4	33·2	- 6·1	3	0·51	13	+ 2	•	•	•	•	•	•	•	•	•	Tynemouth
p Durham	338	42	22nd	16	20th	36·4	27·4	32·1	- 5·7	4	0·39	10	0	0·9	- 0·4	13	6	13	•	•	•	•	Durham.
p Rounton	249	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	Rounton.
a West Witton	*605*	*39*	*20, 22*	*16*	*20th*	*36·4*	*24·4*	*30·6*	—	*5*	*0·49*	*12*	—	•	•	•	7	14	35·1	•	41·2	•	*West Witton.*
p Scarborough†	100	41	17th	27	19th	37·6	30·7	34·3	- 5·3	6	1·04	26	+ 13	0·2	—	3	•	•	•	•	46·3	•	Scarborough.
p York	56	41	23rd	20	20th	36·4	29·1	32·9	- 5·3	5	0·66	17	+ 6	0·0	- 0·8	0	•	•	37·2	- 3·9	43·5	- 0·8	York.
b, South .. *a* Spurn Head	26	39	17, 22, 23	28	20th	38·0	31·9	35·1	- 4·7	5	1·27	32	+ 22	*0·3*	—	*4*	•	•	•	•	•	•	*Spurn Head.*
a Lincoln	58	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	Lincoln.
a Fulbeck	180	39	20th	24	17, 20	35·6	28·1	32·0	- 5·7	6	1·38	35	+ 24	0·2	—	3	•	•	35·8	- 5·1	43·8	- 1·5	Rauceby.
														0·6	—	8	•	•	•	•	•	•	Skegness.
3. ENGLAND, E.																							
a, North .. *p* Cromer	196	43	17, 21, 23	26	18, 19	39·9	29·6	35·0	- 2·6	5	1·14	29	—	0·8	—	11	•	•	•	•	•	•	Cromer.
p Little Massingham	280	42	21st	25	20th	36·7	28·9	33·0	- 4·7	5	1·85	47	+ 33	0·7	- 0·6	9	7	24	•	•	•	•	Lit. Massingham.
a Yarmouth	13	48	23rd	27	20th	40·7	30·6	35·9	- 2·8	6	1·18	30	+ 18	1·1	—	15	•	•	38·1	- 2·7	44·9	- 0·4	Yarmouth.
a Norwich	93	44	21st	26	20th	39·1	30·4	34·9	- 3·6	7	1·23	31	—	0·8	—	11	6	22	36·7	•	•	•	*Norwich.*
a Geldeston	37	48	23rd	24	19th	40·9	29·0	35·2	- 3·6	6	1·17	30	+ 18	0·9	- 0·6	12	•	•	•	•	•	•	Geldeston.
b, South .. *p* Cambridge	41	45	21st	27	17, 20	38·6	29·4	34·2	- 3·9	5	1·14	29	+ 20	0·4	- 0·9	5	7	18	37·2	- 4·1	43·7	- 1·7	Cambridge.
a Clacton-on-Sea	54	47	23rd	27	17th	41·9	33·1	37·7	- 1·4	4	0·71	18	—	0·7	—	9	3	25	39·1	- 4·4	45·1	- 2·2	Clacton.
a Rothamsted	424	45	21st	20	20th	38·4	28·0	33·4	- 4·8	5	1·64	42	+ 29	0·3	- 1·0	4	6	19	36·9	•	•	•	Rothamsted.
p Tottenham	51	50	21st	27	17th	39·7	31·7	35·9	- 3·4	2	0·48	12	—	0·0	—	0	5	26	•	•	44·6	- 2·1	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate	479	40	22nd	16	20th	36·3	25·7	31·2	- 6·5	7	0·63	16	+ 1	0·2	—	3	7	8	36·4	- 4·4	40·7	- 1·5	Harrogate.
p Buxton	*987*	*38*	*21st*	*21*	*20th*	*35·1*	*27·0*	*31·2*	*- 5·0*	*6*	*1·09*	*28*	- 2	*1·2*	—	*16*	6	13	34·2	- 5·5	41·7	- 2·5	*Buxton.*
														0·5	—	7	6	16	35·7	- 4·7	43·1	- 1·2	Sheffield.
b, East .. *a* Bawtry	65	40	22nd	20	20th	36·0	26·1	31·3	- 6·9	6	0·99	25	+ 14	0·4	- 0·6	5	7	3	35·4	•	41·5	•	Worksop.
a Nottingham	82	42	20th	20	20th	38·0	26·4	32·4	- 6·2	6	1·15	29	+ 17	0·1	—	1	6	20	34·0	- 6·1	40·0	- 3·0	Nottingham.
p Birmingham, Edgbsn.	535	40	21st	25	18, 19	37·1	28·7	33·1	- 5·2	6	1·10	28	+ 15	0·3	—	4	6	11	37·3	- 5·0	44·9	- 1·1	Birmingham.
a Raunds	203	43	21st	22	20th	38·3	27·3	33·0	- 5·2	5	1·86	47	—	0·4	—	5	7	10	39·2	•	46·2	•	*Raunds.*
p Oxford	208	43	21st	19	17th	37·9	29·6	33·9	- 5·4	6	1·86	47	+ 36	0·9	- 0·4	12	6	14	•	•	•	•	Oxford
c, West .. *a* Cheadle	646	41	17th	22	20th	35·9	28·3	32·3	- 5·1	6	1·15	29	+ 12	•	•	•	7	18	•	•	•	•	Cheadle.
p Shrewsbury	191	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	Shrewsbury.
a Hereford§	291	43	22nd	18	17th	38·0	26·9	32·7	- 6·2	5	1·40	36	+ 23	*1·0*	—	*14*	7	10	34·6	•	41·3	•	*Malvern.*§
a Bath	66	46	20th	21	17th	40·4	27·4	34·2	- 6·0	5	2·34	59	+ 42	•	•	•	•	•	36·9	- 6·7	43·9	- 3·3	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	?41	22nd	?20	17th	?37·6	26·1	?32·1	- 6·1	6	2·53	64	+ 47	1·0	—	13	4	22	39·1	- 4·2	46·0	- 1·2	Worthing.
a Margate	53	54	23rd	31	17, 18, 19	45·1	33·3	39·4	- 0·9	6	0·98	24	+ 12	0·5	- 1·0	7	7	10	36·0	•	44·6	•	Marlborough.
a Wisley, Surrey	150	49	21st	22	17th	40·7	30·3	35·7	- 3·9	5	1·30	33	—	0·5	- -	7	6	16	38·0	- 4·2	43·8	- 2·1	Margate.
p Salisbury (Wilton)	180	46	21st	23	17th	40·1	31·7	36·1	- 2·6	6	2·77	70	+ 51	•	•	•	5	17	36·0	•	•	•	Wisley.
a Tunbridge Wells	354	52	22, 23	21	17th	43·1	29·7	36·7	- 1·7	5	1·51	38	+ 22	0·6	- 0·8	8	4	16	39·1	- 2·8	44·7	•	Salisbury.
																							Tunbridge Wells.
a Dungeness	21	52	22, 23	28	17th	45·0	35·7	40·5	- 0·5	7	1·78	45	+ 33	•	•	•	•	•	•	•	•	•	Littlestone.
p Hastings	178	52	23rd	30	18th	43·4	34·1	38·9	- 2·1	6	1·56	40	+ 24	1·0	- 0·8	13	5	27	37·8	•	44·9	•	Hastings.
p Southampton	64	49	21st	23	17th	42·4	31·6	37·2	- 4·0	4	2·33	59	+ 42	1·3	- 0·2	17	3	14	•	•	•	•	Southampton.
a Ventnor	59	51	22, 23	31	17, 18	45·4	36·4	41·1	- 2·3	6	2·12	54	+ 38	2·0	+ 0·4	26	•	•	•	•	•	•	Ventnor.
LONDON. *p* Richmond (Kew Obs.)	18	49	21st	24	17th	40·6	29·7	35·4	- 4·1	4	1·13	29	+ 18	0·5	- 0·7	7	6	22	36·3	- 6·2	43·9	- 2·3	Kew Obs.
a Westminster	*27*	*51*	*21st*	*27*	*17th*	*42·7*	*32·6*	*37·9*	*- 2·0*	*4*	*1·11*	*28*	*+ 17*	*0·1*	*- 0·3*	*1*	4	27	•	•	•	•	*Westminster.*
a Greenwich	*155*	*50*	*22nd*	*23*	*19th*	*42·4*	*30·0*	*36·5*	*- 3·1*	*6*	*1·31*	*31*	*+ 20*	*0·4*	*- 0·7*	*5*	6	22	•	•	•	•	*Greenwich.*
a Hampstead	*450*	*47*	*21st*	*21*	*17th*	*40·1*	*30·0*	*35·3*	—	*5*	*1·18*	*30*	—	*0·1*	—	*1*	6	13	•	•	•	•	*Hampstead.*
a Camden Square	*110*	*49*	*21st*	*26*	*17th*	*41·6*	*31·4*	*36·7*	—	*5*	*1·16*	*29*	—	*0·1*	—	*1*	4	25	•	•	•	•	*Camden Square.*
7. *a*, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	41	22nd	22	18th	37·7	29·7	33·9	- 4·8	7	0·86	22	0	1·2	—	17	3	24	36·2	•	42·5	•	Hoylake.
p Newton Rigg	559	42	22nd	26	17th	36·1	29·6	33·0	- 4·0	6	0·98	25	+ 3	0·6	- 0·4	9	7	19	35·9	- 4·5	41·6	- 1·0	Aspatria.
p Stonyhurst	375	40	20, 21, 22	26	20th	37·4	30·0	33·9	- 4·6	4	0·43	11	- 14	0·5	- 0·3	7	7	21	•	•	•	•	Newton Rigg.
p Blackpool	66	45	22nd	25	17th	40·0	30·4	35·4	- 4·1	7	0·52	13	- 4	0·9	0·0	13	7	15	37·1	•	45·4	•	Stonyhurst.
a Southport	37	43	22nd	23	17th	39·4	29·6	34·7	- 4·6	4	0·54	14	- 3	0·8	- 0·1	11	6	16	33·4	- 6·7	40·5	- 2·4	Blackpool.
a Liverpool (Bidston)	188	43	23rd	26	17th	39·3	30·6	35·1	- 5·5	4	0·56	14	+ 1	*2·0*	—	*27*	7	22	•	•	•	•	Southport.
a Hawarden Bridge	22	43	20, 22, 23	22	17th	40·1	29·0	34·8	- 6·1	4	0·50	13	+ 1	0·0	—	0	5	23	35·1	- 5·9	43·3	- 1·7	*Liverpool.*
p Manchester (Whit. Pk.)	125	43	21st	26	19th	38·1	30 1	34·3	- 5·1	4	0·81	21	+ 4	*0·3*	*- 0·1*	*4*	•	•	•	•	•	•	*Manchester (City)*
																							" (Whit. Park)
b, NORTH WALES.																							
p Llandudno	71	44	20, 21, 22	25	17th	41·7	33·4	37·7	- 4·9	6	0·58	15	- 1	1·2	0·0	16	•	•	•	•	•	•	Llandudno.
a Holyhead	15	46	22nd	33	17, 19	43·7	36·3	40·2	- 2·7	6	3·19	81	+(59	*1·8*	—	*25*	•	•	•	•	•	•	*Holyhead.*
p Bettws-y-Coed	148	43	20th	23	17th	39·1	30·6	35·0	- 7·3	5	1·01	26	—	0·4	—	5	•	•	35·0	- 7·3	43·6	- 1·6	Bettws-y-Coed.
														1·7	—	23	•	•	•	•	•	•	Aberdovey.

† Earth temperature at 3 ft

§ The temperature on the grass refers to Hereford.

III.—DATA from which the SUMMARY in Table V. has been calculated—*continued.*

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit. Highest.	Date.	Lowest.	Date.	Mean for the Week. Of Daily Max.	Of Daily Min.	Daily Mean.	Deviation from Normal.	Rainfall. No. of Rain-Days.	Rainfall in the week.	Deviation from Normal.	Bright Sunshine. Hours per Day. Daily Mean	Deviation from Normal.	Percentage of possible duration.	Ground Temperature. Grass Min. Ground Frosts.	Lowest Reading.	Earth 1 ft Mean.	Deviation from average.	Earth 4 ft. Mean.	Deviation from average.	STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														2·1	—	28							
a Llangammarch Wells	550	—	—	—	—	—	—	—	—	—	—	—	—										Aberystwyth.
a Pembroke	149	48	20th	31	17th	45·1	35·4	40·4	− 4·0	7	1·16	29	+ 6	2·5	+ 1·1	33							Llangammarch.
p Cardiff	202	45	20, 21	23	17th	40·0	30·1	35·3	− 4·2	6	1·51	38	+ 12	*1·2*	—	*16*	5	15	35·7	−9·1	44·4	−1·3	Pembroke.
																							Cardiff.
b, ENGLAND, S.W.																							
a Clifton	229	45	20th	23	17th	39·9	29·7	35·0	− 5·7	5	1·68	43	+ 24	*1·2*	—	*16*	5	21	35·3	•	42·6	•	*Clifton.*
a Shaftesbury	722	43	20th	25	18th	38·3	29·9	34·3	− 4·7	6	2·91	74	+ 55	•	•	•	•	•	•	•	•	•	Shaftesbury.
a Arlington	613	43	20th	23	18th	40·3	29·7	35·2	− 5·6	5	1·71	43	+ 7	•	•	•	•	•	•	•	•	•	Arlington.
a Newquay	*190*	*49*	*20th*	*25*	*18th*	*45·3*	*32·9*	*39·4*	− *5·7*	*6*	*1·81*	*46*	+ *24*	2·8	+ 1·2	36	•	•	40·8	•	46·9	•	Newquay.
a Cullompton	202	44	20, 22	20	17th	40·1	27·4	34·0	− 6·6	6	2·12	54	+ 32	1·6	+ 0·4	21	7	14	37·0	•	•	•	Cullompton.
a Portland Bill	19	49	21, 23	32	17th	45·0	36·7	41·0	− 2·2	6	1·63	41	—	°	°	°	•	•	•	•	•	•	*Weymouth.*
p Plymouth	116	49	20th	23	18th	45·4	33·0	39·5	− 4·1	6	2·10	53	+ 28	3·1	+ 1·5	39	•	•	37·0	−8·7	44·9	•	Plymouth.
a Falmouth	167	49	20th	29	18, 19	45·3	33·1	39·4	− 5·5	6	1·59	40	+ 7	3·5	+ 1·7	44	5	22	38·5	•	45·5	•	Falmouth.
9. IRELAND, N.																							
a, West .. { *a* Malin Head	208	43	21, 22	29	19, 20	39·9	32·4	36·3	− 5·6	6	1·50	38	+ 20	*1·6*	—	*23*	•	•	•	•	•	•	*Malin Head.*
a Blacksod Point ..	327	44	22, 23	33	20, 21	41·4	34·4	38·0	− 5·5	7	1·30	33	0	•	•	•	•	•	•	•	•	•	
p Markree Castle ..	122	41	23rd	22	17th	36·9	26·1	31·7	− 8·5	6	1·24	31	+ 5	1·7	+ 0·6	24	6	19	37·7	•	45·0	•	Markree Castle.
a Birr Castle	175	40	22, 23	23	19th	36·7	26·1	31·6	− 8·8	6	0·87	22	+ 4	*1·1*	*− 0·3*	*15*	7	19	•	•	•	•	*Birr Castle.*
b, East .. { *p* Armagh	196	41	20th	26	17, 18, 19	36·6	29·0	33·0	− 7·0	5	0·41	10	− 6	1·9	+ 0·7	27	6	26	38·4	−3·3	44·7	−0·3	Armagh.
a Donaghadee	101	43	20th	28	19, 20	39·0	31·7	35·5	− 5·9	1	0·75	19	+ 2	°	°	°	°	°	°	°	°	°	
														•	•	•	6	22	37·9	−4·7	44·7	−0·8	Trinity Coll.
10. IRELAND, S.														1·5	− 0·2	21	7	20	•	•	•	•	Phœnix Park.
a, East .. { *p* Dublin, City	47	42	20th	27	17, 18	37·3	29·9	33·8	− 8·7	6	0·41	10	− 2	•	•	•	6	25	•	•	•	•	Dublin City.
a Kilkenny	212	43	20th	20	17, 18, 19	37·1	21·4	29·6	−11·1	5	0·62	16	− 3	•	•	•	•	•	•	•	•	•	
a Waterford	20	—	—	—	—	—	—	—	—	—	—	—	—	•	•	•	•	•	•	•	•	•	
a Seskin, Carrick-on-Suir	*541*	*44*	*22nd*	*22*	*18th*	*38·7*	*27·9*	*33·5*	—	*3*	*0·68*	*17*	—	*2·4*	—	*32*	6	17	•	•	•	•	*Seskin.*
b, West .. { *a* Birr Castle	175	40	22, 23	23	19th	36·7	26·1	31·6	− 8·8	6	0·87	22	+ 4	1·1	− 0·3	15	7	19	•	•	•	•	Birr Castle.
a Foynes	50	43	23rd	24	17th	39·1	29·6	34·5	− 8·3	7	0·95	24	− 1	•	•	•	•	•	•	•	•	•	
a Cahir	199	43	20th	18	17th	38·0	22·4	30·5	−12·0	4	0·73	19	—	•	•	•	•	•	•	•	•	•	
a Killarney	174	47	20th	21	17th	40·5	26·4	33·7	− 9·7	6	1·04	26	− 15	•	•	•	•	•	•	•	•	•	
a Cahirciveen (Val. Obs.)	30	46	22, 23	27	17th	42·6	29·6	36·4	− 9·1	7	1·97	50	+ 13	1·9	+ 0·6	25	•	•	•	•	•	•	Valencia.
a Roche's Point	32	48	20th	29	18th	43·0	30·7	37·1	− 7·5	7	0·61	16	− 15	1·6	—	21	•	•	•	•	•	•	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	50	20th	35	18th	47·1	39·1	43·3	− 4·1	6	1·38	35	+ 12	3·4	+ 1·8	43	•	•	•	•	•	•	Scilly.
a Jersey, St. Aubins ..	25	55	23rd	30	18th	48·0	36·0	42·2	− 2·3	6	1·10	28	+ 6	3·0	+ 1·0	38	•	•	•	•	•	•	St. Heliers.
a Guernsey (Villa Carey)	180	53	22nd	32	18th	47·6	37·7	42·9	− 2·2	6	2·45	62	+ 37	3·0	+ 1·6	38	4	26	41·7	−4·8	46·8	−2·4	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, December 23rd, 1916.

DISTRICT AND STATION.	Height. Above Mean Sea Level.	Above Ground.	Above Building.	Distribution of Wind. Gales, force 8 or more. Dates of Occurrence.	Gales, force 8 or more. Duration.	High Winds, forces 6 and 7. Dates of Occurrence.	High Winds, forces 6 and 7. Duration.	Fresh or Moderate Winds, forces 4 and 5. Duration.	Light Winds, forces 2 and 3. Duration.	Calms and Light Airs, forces 0 and 1. Duration.	No Record. Duration.	Extreme Velocities. Highest Hourly Wind. Direction and Velocity.		Date and Hour, G.M.T.		Highest Gust with Date and Time, G.M.T.		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.			m/s.	d.	h. m.
1. SCOTLAND, E.																		
Dyce	305	75	‡15**	—	—	—	—	22	33	106	7	—	10	20th	20h.	23	20th	19 . 50
Aberdeen*	153	105 {	37 {	—	—	20th	3	28	64	68	0	SE. by S.	14	20th	19h.	22	20th	17 . 50
			52 } †															
Edinburgh	485	39	31	—	—	20, 22	3	50	96	19	0	SSW.	11	22nd	2h.	18	22nd	2 . 25
6 SCOTLAND, W.																		
Eskdalemuir	825	50	22	—	—	20 to 22	10	30	68	60	0	WSW.	15	22nd	6h.	20	22nd	5 . 45
Paisley	188	81	52	—	—	—	—	25	59	84	0	—	10	21st	3h.	18	22nd	19 . 30
2. ENGLAND, N.E.																		
Alnwick Castle	340	70	17	—	—	—	—	21	58	78	11	S.	10	20th	24h.	17	20th	23 . 50
South Shields	72	61	12	—	—	20th	3	21	120	24	0	S.	13	20th	20h.	22	20th	19 . 45
Spurn Head	66	40	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
3. ENGLAND, E.																		
Gorleston	52	42	‡	—	—	20, 21, 23	21	35	26	3	83	—	17	21st	12h.	22	21st	12 . 40
Shoeburyness	103	90	‡	21st	2	20 to 23	25	45	48	24	24	S. by W.	18	21st	13h.	27	21st	13 . 55
4. MIDLAND COUNTIES.																		
Benson	270	84	‡	—	—	—	—	53	53	54	8	S. by E.	10	20th	20h.	17	23rd	15 . 55
5. ENGLAND, S.E.																		
Dover	271	40	‡	21st	1	20, 21, 23	9	88	47	23	0	—	20	21st	15h.	28	21st	14 . 55
Warlingham	642	33	‡	—	—	21st	1	48	56	53	10	—	11	21st	13h.	21	23rd	9 . 40
Brighton	261	53	6	—	—	21, 23	13	62	73	20	0	—	14	23rd	12h.	22	23rd	11 . 5
Richmond (Kew Obs.)..	82	65 {	6 {	—	—	—	—	38	72	58	0	S. by E.	10	21st	12h.	19	21st	12 . 20
			22 } †															
South Kensington‖ ..	123	92	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
7. ENGLAND, N.W.																		
Carnforth	246	56	23	—	—	—	—	9	104	55	0	—	9	20th	21h.	17	20th	21 . 10
Southport	80	62	48	—	—	20, 23	10	69	80	9	0	W.	16	23rd	18h.	22	23rd	18 . 25
Holyhead*	60	40	‡	23rd	3	20, 23	24	77	62	2	0	W.	21	23rd	20h.	28	23rd	20 . 5
8. ENGLAND, S.W.																		
Pendennis Castle§ ..	256	65	24	20th	1	18, 20, 21, 23	17	42	81	27	0	SSW.	17	20th	11h.	26	23rd	12 . 50
Plymouth	185	88	2	20th	1	19, 20	10	47	79	31	0	—	17	20th	12h.	26	20th	13 . 15
Lyme Regis	556	61	‡	—	—	20, 21, 23	8	46	57	57	0	—	15	21st	10h.	20	23rd	14 . 40
10. IRELAND, S.																		
Quilty	100	40	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Weaver Pt.	160	30	‡	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
11. ENGLISH CHANNEL.																		
Scilly*	150	{ 32 {	‡	23rd	1	20, 21, 23	29	43	68	27	0	NW.	18	23rd	10h.	30	23rd	12 . 20
		19 }																

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.

‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.

† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof. The Anemograph at S. Kensington was dismounted on November 9th.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

FIFTY-FIRST WEEK—December 17th to December 23rd, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L
			Means of				Accumulated Number of Day-Degrees.												
	Highest.	Lowest.	Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.	Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	44	23	76·8	72·4	74·7	− 2·0	0	− 8	48	+ 17	5	0	0·83	21	− 9	0·4	−0·1	7	988
Eastern.																			
1. SCOTLAND, EAST ...	42	11	75·4	70·4	73·0	− 2·9	0	− 7	70	+ 29	4	+ 1	0·52	13	− 1	1·0	+0·1	15	989
2. ENGLAND, N.E.	43	13	75·7	71·1	73·5	− 3·1	0	− 8	64	+ 31	5	+ 1	0·83	21	+ 9	0·4	−0·8	5	992
3. ENGLAND, EAST ...	50	20	77·2	71·9	74·7	− 1·7	0	− 8	49	+ 11	5	+ 2	1·17	30	+ 21	0·6	−0·7	8	994
4. MIDLAND COUNTIES ...	46	16	76·1	70·4	73·4	− 2·9	0	− 9	65	+ 26	6	+ 3	1·39	35	+ 23	0·4	−0·7	5	994
5. ENGLAND, S.E.	54	20	78·7	72·9	75·9	− 1·7	1	− 13	37	+ 10	6	+ 3	1·80	46	+ 34	0·9	−0·5	12	995
Western.																			
6. SCOTLAND, WEST ...	46	23	76·7	73·0	74·9	− 2·5	0	− 11	46	+ 20	7	+ 3	1·96	48	+ 20	1·0	+0·1	14	990
7. ENGLAND, N.W.	46	22	77·1	72·4	74·8	− 2·5	0	− 11	47	+ 20	5	+ 2	0·95	24	+ 7	0·9	0·0	13	992
8. ENGLAND, S.W.	49	20	78·7	72·8	75·8	− 2·7	1	− 17	37	+ 19	6	+ 2	1·82	46	+ 23	2·6	+1·2	34	993
9. IRELAND, NORTH ...	44	22	76·6	71·8	74·3	− 3·6	0	− 13	53	+ 31	5	0	1·01	26	+ 5	1·8	+0·7	25	989
10. IRELAND, SOUTH ...	48	18	77·1	70·9	74·1	− 4·8	0	− 22	56	+ 29	6	+ 2	0·90	23	− 3	1·5	+0·1	21	993
11. ENGLISH CHANNEL ...	55	30	81·7	76·1	79·0	− 1·5	24	− 6	12	+ 7	6	+ 1	1·64	42	+ 23	3·1	+1·3	40	995

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 3 Weeks, December 3rd to December 23rd, 1916.

0. SCOTLAND, NORTH ...	50	23	77·8	73·5	75·8	− 1·2	2	− 25	110	+ 22	15	− 1	2·38	60	− 45	0·5	−0·1	8	998
Eastern.																			
1. SCOTLAND, EAST ...	49	11	76·8	71·6	74·3	− 2·0	0	− 24	161	+ 48	14	+ 1	2·63	66	+ 15	1·0	0·0	15	998
2. ENGLAND, N.E.	48	13	77·0	72·3	74·8	− 2·2	0	− 28	144	+ 55	15	+ 4	2·58	65	+ 24	1·1	−0·1	15	998
3. ENGLAND, EAST ...	50	20	77·5	72·8	75·3	− 1·6	0	− 31	126	+ 24	13	+ 1	2·20	56	+ 21	0·6	−0·8	8	998
4. MIDLAND COUNTIES ...	47	16	76·3	70·9	73·7	− 3·1	0	− 33	182	+ 76	12	+ 1	1·98	50	+ 9	0·9	−0·3	12	999
5. ENGLAND, S.E.	54	19	77·9	73·0	75·5	− 2·5	1	− 49	121	+ 50	13	+ 1	2·84	72	+ 27	1·0	−0·5	13	999
Western.																			
6. SCOTLAND WEST ...	47	19	77·8	73·1	75·5	− 2·4	3	− 36	123	+ 56	16	+ 2	3·12	80	− 14	1·4	+0·4	20	998
7. ENGLAND, N.W.	49	22	77·4	72·4	75·0	− 2·8	0	− 39	135	+ 65	14	+ 1	1·76	45	− 15	1·6	+0·6	21	998
8. ENGLAND, S.W.	49	20	78·2	72·8	75·6	− 3·3	5	− 58	124	+ 75	13	− 1	2·87	72	− 7	2·3	+0·8	30	999
9. IRELAND, NORTH ...	49	21	78·1	73·5	75·9	− 2·2	6	− 36	114	+ 50	15	− 1	2·68	68	+ 2	1·8	+0·5	25	998
10. IRELAND, SOUTH ...	50	18	78·0	72·7	75·5	− 3·6	8	− 62	131	+ 83	17	+ 3	2·40	61	− 17	1·7	+0·2	23	1000
11. ENGLISH CHANNEL ...	55	30	81·0	76·6	78·9	− 2·0	50	− 51	36	+ 24	17	+ 2	3·28	83	+ 13	2·6	+0·8	32	999

THE YEAR.—Aggregates, &c., for the Period of 51 Weeks, January 2nd to December 23rd, 1916.

0. SCOTLAND, NORTH ...	81	20	83·6	78·0	80·7	+ 0·1	2039	− 66	609	−153	246	+ 4	54·96	1394	+ 94	2·5	−0·6	21	1008
Eastern.																			
1. SCOTLAND, EAST ...	82	7	84·2	77·2	80·6	− 0·2	2171	−176	859	− 26	219	+20	41·05	1043	+278	3·1	−0·6	25	1009
2. ENGLAND, N.E.	84	13	85·3	78·6	81·8	+ 0·2	2735	+101	590	− 59	195	+14	27·60	703	+ 82	3·4	−0·6	28	1010
3. ENGLAND, EAST ...	83	20	86·0	79·0	82·4	+ 0·3	3033	− 6	544	−179	192	+17	27·78	705	+119	3·6	−0·8	30	1012
4. MIDLAND COUNTIES ...	84	16	86·1	78·3	82·0	+ 0·1	2983	+ 30	685	− 72	187	+14	28·91	737	+ 82	3·4	−0·5	28	1012
5. ENGLAND, S.E.	86	15	86·6	79·5	82·9	0·0	3296	− 21	468	− 51	186	+18	32·89	837	+167	4·0	−0·5	33	1012
Western.																			
6. SCOTLAND, WEST ...	83	17	85·0	78·7	81·7	+ 0·1	2587	+ 14	527	− 47	231	+22	45·57	1163	− 32	3·5	−0·3	29	1010
7. ENGLAND, N.W.	83	8	85·3	79·3	82·2	+ 0·1	2860	+ 46	473	− 45	204	+11	35·75	910	+ 42	3·5	−0·4	29	1011
8. ENGLAND, S.W.	84	17	86·2	79·8	82·8	0·0	3176	0	439	+ 38	201	+ 8	42·26	1080	+121	4·1	−0·2	34	1012
9. IRELAND, NORTH ...	81	18	85·1	79·1	82·0	0·0	2708	+ 17	478	− 2	244	+16	40·27	1029	+ 74	3·2	−0·4	26	1010
10. IRELAND, SOUTH ...	85	18	86·2	79·8	82·9	+ 0·1	3211	+ 80	391	+ 24	252	+49	43·75	1107	+113	3·7	−0·3	30	1012
11. ENGLISH CHANNEL ...	80	30	86·8	81·7	84·1	− 0·1	3747	− 17	131	+ 6	205	− 2	35·90	907	+ 99	4·9	−0·4	40	1013
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics, South Kensington, S.W., December 29th, 1916.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE. To be purchased, either directly or through any Bookseller, from WYMAN AND SONS, LTD., FETTER LANE, E.C.; or H.M. STATIONERY OFFICE (SCOTTISH BRANCH), 23, FORTH STREET, EDINBURGH; or E. PONSONBY, LTD., 116, GRAFTON STREET, DUBLIN; or from the Agencies in the British Colonies and Dependencies, the United States of America and other Foreign Countries of T. FISHER UNWIN, LIMITED, LONDON, W.C.

THIRTY-NINTH YEAR. Vol. XXXIII. (New Series.) } No. 52. SUNDAY, DECEMBER 24TH, to SATURDAY, DECEMBER 30TH, 1916.

Price 6d., Post free 7d
Annual Subscription Post Paid £1 10s. 0d.

I.—THE FIFTY-SECOND WEEK OF 1916.

Weather continued of a disturbed South-Westerly type. A few isolated gales were reported on different days, but there was no general prevalence of strong winds. With these conditions was associated a rise of temperature over the whole country, the mean for the week being in all districts somewhat above the normal. In the midland and eastern parts of England the rise of temperature was very rapid; for example, both at Kew and at South Farnborough the dry bulb reading rose 13 a. between 7 h. on Thursday and the same hour the next day. Day temperatures ranged up to 288 a. which was recorded at Birr Castle on the 28th and at Shaftesbury on the 29th. At several inland stations night minima as low as 266 a. were recorded early in the week. Although its temperature showed a slight rise from the preceding week, the water round our coasts remained colder than normal. It ranged from 278 a. off England North-East and Ireland South-West, to 281·5 a. off England South-West and North-West. There was a considerable amount of rain in all parts of the country, the districts with the largest falls being Scotland North with 57 mm., and the English Channel with 39 mm., in each case nearly twice the normal. Eskdalemuir recorded 44 mm. of rain on the 28th and falls of 25 to 30 mm. occurred at several other stations in the west on the same day. In the eastern districts sunshine did not depart much from the normal, but in the west it was more abundant. There was a good deal of fog in the Midlands and the South-East about the middle of the week.

WIND COMPONENTS.—FREQUENCY AND MEAN VALUES.

WIND COMPONENT FROM	SCOTLAND, N.		EDINBURGH.		ENGLAND, E.		LONDON.		NORTH WALES.		ENGLAND, S.W.		DUBLIN.		IRELAND, S.W.	
	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency. (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.	Frequency (Max. 7.)	Mean Value.
		m/s		m/s		m/s		m/s		m/s		m/s		m/s		m/s
South	6	5·8	7	6·0	4	2·1	7	1·7	6	5·2	4	5·0	6	5·4	6	5·2
North	1	1·4	0	—	2	0·7	¼	2·1	1	1·4	3	2·6	1	0·6	1	0·6
West	5	3·8	6	5·6	6	3·6	7	2·3	6	5·3	5	7·8	6	6·5	4	4·9
East	1	2·6	1	0·8	1	4·8	¼	6·8	0	—	2	4·6	¼	0·2	2	1·7
Calm	0	—	0	—	0	—	0	—	0	—	0	—	0	—	¼	—

WARMTH, RAINFALL AND SUNSHINE.—COMPARISON WITH NORMAL.

An explanation of the terms "Unusual," &c. is printed on a separate sheet. *See below*, Note (1).

		DISTRICTS OF THE BRITISH ISLES.											
		Extreme N.	EASTERN SECTION.					WESTERN SECTION.					Extreme S.
		0. Scotland, N.	1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties	5. England, S.E.	6. Scotland, W.	7. England, N.W.	8. England, S.W.	9. Ireland, N.	10. Ireland, S.	11. English Channel
Comparison with normal for the time of year ...	Warmth ...	Unusual	Moderate	Moderate	Moderate	Moderate	Moderate	Unusual	Moderate	Moderate	Unusual	Moderate	Moderate
	Rainfall ...	Heavy	Moderate	Moderate	Heavy	Moderate	Heavy	Heavy	Heavy	Heavy	Moderate	Moderate	Heavy
	Sunshine ...	Moderate	Abundant	Moderate	Moderate	Moderate	Moderate	Abundant	Abundant	Moderate	Abundant	Abundant	Scanty

II.—THE WINTER SEASON.

ENUMERATION OF THE CHARACTERS OF THE WEEKS ALREADY ELAPSED.

WINTER. 4 weeks from Dec. 3rd, 1916.	Warmth ...	1, 1, 2	0, 1, 3	0, 1, 3	0, 2, 2	0, 1, 3	0, 1, 3	1, 0, 3	0, 1, 3	0, 1, 3	1, 1, 2	0, 1, 3	0, 1, 3
	Rainfall ...	1, 1, 2	2, 2, 0	2, 2, 0	2, 2, 0	1, 2, 1	2, 2, 0	2, 0, 2	2, 1, 1	2, 1, 1	1, 2, 1	0, 3, 1	2, 2, 0
	Sunshine ...	0, 4, 0	1, 3, 0	1, 2, 1	0, 1, 3	1, 1, 2	0, 2, 2	3, 1, 0	3, 1, 0	2, 2, 0	3, 1, 0	2, 2, 0	1, 2, 1

NOTES.

(1) Notes explanatory of the Tables are published in a separate sheet. A copy of this will be supplied free of charge to any purchaser of the Report upon application to the Meteorological Office. Copies will be issued to regular recipients of the Report at the beginning of each quarter.

(2) The dates in square brackets at the head of the tables are the years in which the information referred to was first included in the Report.

(3) Tables for converting from degrees Fahrenheit to degrees Absolute (a.), from inches to millimetres (mm.), from mercury inches to millibars (mb.), and from miles per hour to metres per second (m/s), may be obtained upon application to the Meteorological Office.

(4) The following are the relations between the metric units used in the Report and the corresponding units used before 1914.

Increment of 1 a. = increment of $\frac{9}{5}$° F., 273 a. = 0° C. = 32° F., 1 mm. = ·04 (·0394) inch 1000 mb. = 29·531 mercury inches, 1 m/s = 2·24 miles per hour.

(9980—19.) Wt. 79a—736. 450. 1/17. D & S. G. 17/36.

III.—DATA from which the SUMMARY in Table V. has been calculated. [TEMPERATURE and RAINFALL, 1878, SUNSHINE, 1880, GROUND TEMPERATURE, 1906.] Values printed in Italic Type are not used for the computation of District Values.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge.	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the Week.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft.		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts	Lowest Reading.	Mean.	Deviation from Average.	Mean.	Deviation from Average.	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
0. SCOTLAND, N.																							
p Baltasound	*31*	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	*Baltasound.*
a, Islands .. *a* Lerwick ..	54	47	28–30	34	28th	45·3	38·6	42·1	+ 2·2	7	1·42	36	—	0·3	- 0·6	5	*	*	*	*	*	*	Deerness.
a Stornoway ..	51	52	28th	33	24, 26	46·6	37·3	42·1	+ 2·5	7	1·57	40	+ 4	0·5	- 0·3	8	*	*	*	*	*	*	Stornoway.
a Castlebay, Barra Isd. ..	*37*	*51*	*28, 30*	*37*	*24th*	*48·3*	*41·4*	*45·0*	+ *2·6*	*7*	*1·26*	*32*	—	*0·5*	—	*3*	*	*	*	*	*	*	*Castlebay.*
a Wick	81	48	28th	31	26th	44·3	34·1	39·4	+ 0·8	5	0·63	16	- 1	*	*	*	*	*	*	*	*	*	
p Strathpeffer ..	200	49	28th	28	24th	43·0	34·0	38·7	+ 1·6	6	0·97	25	+ 6	*	*	*	*	*	*	*	*	*	Strathpeffer.
b, Main- *p* Glencarron ..	500	49	28th	33	24–26	43·9	36·4	40·3	+ 3·4	7	3·85	98	+ 38	*	*	*	*	*	*	*	*	*	
land. *p* Fort Augustus..	68	49	28th	30	24th	44·3	36·0	40·3	+ 2·1	7	3·32	84	+ 51	0·2	- 0·2	3	*	*	*	*	*	*	Fort Augustus.
p Fort William	171	50	28th	34	24th	45·3	38·4	42·0	+ 2·2	7	4·05	103	+ 46	*	*	*	*	*	*	*	*	*	
1. SCOTLAND, E.																							
p Gordon Castle	101	50	28th	31	27, 28	44·6	34·4	39·7	+ 1·4	3	0·15	4	- 11	1·2	—	18	6	18	34·4	-3·0	39·4	-0·3	Crathes.
a Nairn	82	50	28th	29	24, 25	45·0	34·6	40·0	+ 2·5	7	0·35	9	- 3	*0·8*	—	*12*	*	*	*	*	*	*	*Gordon Castle.*
a Aberdeen	46	48	30th	30	24th	44·0	33·6	39·0	+ 0·9	4	0·25	6	- 10	1·0	—	16	*	*	*	*	*	*	Nairn.
a Balmoral	930	46	28, 29	20	24th	41·4	29·6	35·7	+ 1·3	5	0·56	14	- 4	1·3	+ 0·1	20	*	*	*	*	40·7	-1·1	Aberdeen.
p Crieff	432	48	28–30	25	24th	43·6	32·6	38·3	+ 0·8	6	1·44	37	+ 13	*	—	*	6	15	*	*	*	*	Balmoral.
														1·4	—	21	*	*	*	*	*	*	Balruddery.
a Leith	18	53	28th	32	24th	46·7	37·6	42·3	+ 3·0	5	0·46	12	+ 2	*	*	*	*	*	*	*	*	*	
a West Linton	769	48	28, 30	23	24th	42·3	31·6	37·2	+ 2·3	8	1·77	45	—	*0·4*	—	*6*	5	20	*	*	*	*	*West Linton.*
p Marchmont	498	48	29th	30	24th	43·0	34·3	38·8	+ 2·2	6	0·59	15	+ 1	0·9	- 0·3	13	2	28	*	*	*	*	Marchmont.
a Edinburgh	*441*	*52*	*28th*	*33*	*24th*	*44·9*	*37·6*	*41·4*	—	*4*	*0·33*	*8*	—	1·6	—	24	1	30	*	*	*	*	Edinburgh.
6. *a* SCOTLAND, W.																							
a Poltalloch	132	50	29, 30	—	—	46·4	—	—	—	7	1·42	36	+ 6	*	*	*	*	*	*	*	*	*	
p Glasgow Observatory	180	52	28th	34	26th	45·0	38·6	41·9	+ 2·8	6	1·58	40	+ 18	0·6	+ 0·1	9	2	28	*	*	*	*	Glasgow.
p Rothesay	170	51	28th	33	26, 27	45·3	38·1	41·8	+ 1·8	7	1·80	46	+ 18	*0·8*	—	*12*	3	27	38·4	*	42·0	-1·6	*Rothesay.*
a Kilmarnock	90	52	28th	30	27th	46·7	37·1	42·1	+ 2·1	7	1·92	49	—	*0·7*	—	*10*	*	*	37·9	*	42·2	*	*Kilmarnock.*
a Colmonell	170	50	28–30	26	28th	46·6	36·7	41·9	+ 1·0	6	1·18	30	+ 2	*	*	*	3	22	*	*	*	*	
a Dumfries	160	53	29th	27	27th	46·1	36·3	41·4	+ 2·8	6	1·23	31	+ 10	*1·5*	—	*21*	5	18	36·4	*	40·0	*	*Dumfries.*
Eskdalemuir	*794*	*49*	*30th*	*23*	*28th*	*42·7*	*30·6*	*36·9*	—	*6*	*2·76*	*70*	—	*0·2*	—	*3*	*	*	*	*	*	*	*Eskdalemuir.*
p Cally, Gatehouse ..	120	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	
b, I. OF MAN. *p* Douglas	277	52	29th	33	27th	47·0	39·6	43·5	+ 1·8	6	1·13	29	+ 4	2·2	+ 0·8	31	1	27	*	*	*	*	Douglas.
2. ENGLAND, N.E.																							
a Alnwick Castle ..	210	53	30th	33	24, 25, 28	46·0	36·4	41·4	+ 2·7	2	0·13	3	- 12	2·3	*	33	3	24	35·1	-2·5	39·1	-1·7	Cockle Park.
a Tynemouth	71	53	29th	31	24th	45·6	35·4	40·7	+ 1·6	3	0·28	7	- 4	*	*	*	*	*	*	*	*	*	Tynemouth
p Durham	336	51	29th	29	24th	44·4	34·6	39·7	+ 2·0	3	0·23	6	- 4	1·9	+ 0·5	27	4	21	*	*	*	*	Durham.
a North .. *p* Rounton	249	51	29th	27	24, 27	42·7	33·6	38·3	+ 0·8	5	0·38	10	- 1	*	*	*	5	22	35·1	*	*	*	Rounton.
a West Witton ..	*605*	*51*	*28th*	*27*	*27, 28*	*44·6*	*33·0*	*39·0*	—	*5*	*1·04*	*26*	—	*	*	*	4	21	35·2	*	40·1	*	*West Witton.*
p Scarborough† ..	100	49	29, 30	29	28th	42·4	34·1	38·4	- 0·8	5	0·57	14	+ 2	1·1	—	15	*	*	*	*	45·0	*	Scarborough.
p York	56	52	29th	27	28th	44·1	34·9	39·7	+ 1·5	4	0·40	10	- 1	0·2	- 0·6	3	*	*	36·6	-3·7	42·2	-1·5	York.
a Spurn Head ..	26	50	29th	32	27th	42·9	36·0	39·6	0·0	3	0·63	16	+ 7	*0·5*	—	*7*	*	*	*	*	*	*	*Spurn Head.*
b, South .. *a* Lincoln	58	?55	29th	24	28th	?44·1	31·9	?38·2	+ 0·6	3	0·36	9	- 1	*	*	*	*	*	34·6	-5·3	41·2	-2·6	Lincoln.
a Fulbeck	180	55	29th	21	28th	44·1	31·4	38·0	+ 0·5	5	0·44	11	0	1·3	—	18	*	*	35·8	-4·3	42·6	-2·0	Rauceby.
														1·8	—	24	*	*	*	*	*	*	Skegness.
3. ENGLAND, E.																							
p Cromer	196	55	29th	30	28th	46·1	34·1	40·3	+ 2·9	6	0·45	11	—	2·1	—	28	*	*	*	*	*	*	Cromer.
p Little Massingham ..	280	53	29, 30	26	27th	42·7	32·1	37·6	+ 0·1	4	0·56	14	+ 1	1·6	+ 0·2	22	5	24	*	*	*	*	Lit. Massingham.
a, North .. *a* Yarmouth	13	55	29th	28	28th	46·0	34·1	40·3	+ 2·0	5	0·55	14	+ 3	1·4	—	19	3	27	38·6	-1·2	43·3	-1·1	Yarmouth.
a Norwich	93	55	29th	27	28th	44·9	33·4	39·4	+ 1·2	5	0·49	12	—	*1·8*	—	*24*	4	21	36·2	*	*	*	*Norwich.*
a Geldeston	37	57	29th	26	27th	47·0	32·1	39·9	+ 1·7	6	0·51	13	+ 2	1·9	+ 0·3	26	*	*	*	*	*	*	Geldeston.
p Cambridge	41	58	29th	22	27th	45·6	33·0	39·6	+ 1·7	4	0·46	12	+ 4	1·5	+ 0·1	20	5	16	36·6	-4·7	42·5	-2·2	Cambridge.
b, South .. *a* Clacton-on-Sea ..	54	50	29, 30	27	28th	43·9	34·0	39·2	+ 0·3	4	0·79	20	—	1·9	—	25	3	25	38·9	-3·4	44·2	-2·5	Clacton.
a Rothamsted	424	53	29th	23	27th	44·7	30·3	37·8	0·0	5	0·71	18	+ 5	1·9	+ 0·5	25	5	19	36·8	*	*	*	Rothamsted.
p Tottenham	51	53	29th	27	27th	44·6	35·7	40·3	+ 1·1	3	0·68	17	—	0·4	—	5	3	24	*	*	43·4	-2·7	Tottenham.
4. MIDLAND COUNTIES.																							
a North .. *a* Harrogate	479	51	28th	31	24, 27, 28	44·4	34·0	39·4	+ 1·8	5	0·63	16	+ 2	1·1	—	16	3	22	36·7	-3·5	39·7	-2·1	Harrogate.
p Buxton	*987*	*50*	*29th*	*19*	*27th*	*41·3*	*30·3*	*36·0*	+ *0·1*	*5*	*1·16*	*29*	*0*	*1·1*	—	*15*	5	11	34·2	-5·1	40·5	-3·3	*Buxton.*
a Bawtry	65	53	29, 30	24	27th	44·7	31·7	38·5	+ 0·5	4	0·47	12	+ 2	0·7	—	10	4	22	35·8	-3·9	42·0	-1·7	Sheffield.
a Nottingham	82	55	29th	21	27, 28	44·3	30·3	37·6	- 0·8	5	0·51	13	+ 1	0·9	- 0·1	12	5	19	34·8	*	40·4	*	Worksop.
b, East .. *p* Birmingham, Edgbsn.	535	54	29th	24	27th	44·4	34·4	39·6	+ 1·5	3	0·42	11	- 2	0·4	—	5	5	19	34·7	-4·5	38 6	-3·8	Nottingham.
a Raunds	203	55	29th	20	27, 28	44·9	29·9	37·7	0·0	4	0·48	12	—	1·2	—	16	5	17	37·7	-3·9	44·3	-1·4	Birmingham.
p Oxford	208	56	29th	24	27, 28	44·4	34·0	39·4	+ 0·3	4	0·58	15	+ 4	*1·6*	—	*22*	5	10	37·8‡	*	45·1	*	*Raunds.*
														1·3	- 0·1	17	4	20	*	*	*	*	Oxford
a Cheadle	646	51	29th	21	28th	44·0	30·3	37·4	+ 0·1	4	0·70	18	+ 2	*	*	*	5	18	*	*	*	*	Cheadle.
c, West .. *p* Shrewsbury ..	191	55	29th	21	27th	48·0	32·7	40·7	+ 0·7	4	0·57	15	—	*	*	*	5	16	*	*	*	*	Shrewsbury.
a Hereford§	291	55	29th	20	27th	47·4	31·6	39·8	+ 1·9	4	0·32	8	- 5	*2·1*	—	*28*	5	14	35·1	*	40·2	*	*Malvern.*§
a Bath	66	58	29th	23	28th	46·9	31·7	39·6	- 0·5	4	1·41	36	+ 20	*	*	*	*	*	37·4	-5·4	42·8	-4·0	Bath.
5. ENGLAND, S.E.																							
a Marlborough	424	54	29th	22	27th	44·7	31·4	38·3	+ 0·3	4	0·95	24	+ 8	1·9	—	25	5	22	39·7	-2·3	45·0	-1·5	Worthing.
a Margate	53	54	29th	29	28th	46·7	36·7	41·9	+ 1·8	3	0·60	15	+ 4	1·4	+ 0·2	18	5	16	37·2	*	43·1	*	Marlborough.
a Wisley, Surrey ..	150	54	29th	22	28th	44·6	31·0	38·1	- 1·4	3	0·55	14	—	1·1	- 0·4	14	1	28	40·0	-2·3	43·6	-1·3	Margate.
p Salisbury (Wilton) ..	180	55	29th	21	28th	45·2	33·3	39·5	+ 1·0	4	1·07	27	+ 9	0·7	—	9	5	15	38·4	-2·9	43·0	-2·1	Wisley.
a Tunbridge Wells ..	354	52	28, 29	26	28th	45·9	33·3	39·9	+ 1·7	3	0·76	19	+ 4	*	*	*	4	18	36·4	*	*	*	Salisbury.
														1·2	- 0·2	16	5	18	40·1	-0·9	43·7	*	Tunbridge Wells.
a Dungeness	21	50	28–30	32	28th	48·0	38·9	43·6	+ 3·0	5	1·22	31	+ 19	*	*	*	*	*	*	*	*	*	Littlestone.
p Hastings	178	51	29, 30	32	27th	46·3	38·1	42·4	+ 1·8	5	1·14	29	+ 14	2·5	+ 0·7	32	2	27	39·0	*	44·0	*	Hastings.
p Southampton ..	64	53	29, 30	27	27th	45·6	35·1	40·6	- 0·3	4	0·93	24	+ 8	1·7	+ 0·2	22	4	17	*	*	*	*	Southampton.
a Ventnor	59	51	28–30	34	27th	48·6	38·0	43·5	+ 0·7	5	1·29	33	+ 18	1·8	+ 0·2	23	*	*	*	*	*	*	Ventnor.
LONDON. *p* Richmond (Kew Obs.)	18	54	29th	24	28th	43·7	33·6	38·9	- 0·3	3	0·56	14	+ 4	1·0	- 0·2	13	5	24	36·9	-4·5	42·8	-2·9	Kew Obs.
a Westminster	*27*	*56*	*29th*	*28*	*28, 29*	*46·3*	*33·3*	*40·1*	+ *0·5*	*3*	*0·68*	*17*	+ *7*	*0·5*	*0·0*	*7*	5	26	*	*	*	*	*Westminster.*
a Greenwich	*155*	*55*	*29th*	*26*	*27, 28*	*45·3*	*32·7*	*39·3*	- *0·3*	*4*	*0·63*	*16*	+ *6*	*0·9*	- *0·2*	*12*	6	23	*	*	*	*	*Greenwich.*
a Hampstead	*450*	*53*	*28th*	*23*	*27th*	*44·4*	*31·7*	*38 3*	—	*3*	*0·67*	*17*	—	*1·0*	—	*13*	5	17	*	*	*	*	*Hampstead.*
a Camden Square ..	*110*	*55*	*29, 30*	*27*	*28th*	*46·0*	*33·7*	*40·1*	—	*4*	*0·74*	*19*	—	*0·3*	—	*4*	5	25	*	*	*	*	*Camden Square.*
7. *a*, ENGLAND, N.W.																							
p Aspatria (Mealsgate)	487	50	29th	28	24th	44·6	36·0	40·5	+ 2·0	6	1·31	33	+ 13	1·9	—	26	*	*	*	*	*	*	Hoylake.
p Newton Rigg	559	50	28, 29	24	27th	44·3	34·0	39·4	+ 2·5	5	1·66	42	+ 21	1·0	—	14	2	24	38·6	*	41·9	*	Aspatria.
p Stonyhurst	375	49	29th	30	27, 28	44·3	36·4	40·5	+ 2·3	6	2·02	51	+ 26	1·0	- 0·1	14	4	18	37·4	-2·4	40·6	-1·6	Newton Rigg.
p Blackpool	66	49	28, 29	25	27th	45·3	33·4	39·6	+ 0·2	6	0·94	24	+ 7	0·4	- 0·5	6	2	20	*	*	*	*	Stonyhurst.
a Southport	37	51	28th	26	27th	45·4	34·1	40·0	+ 0·7	6	1·13	29	+ 12	1·3	+ 0·3	18	2	21	38·5	*	44·3	*	Blackpool.
a Liverpool (Bidston) ..	188	53	28–30	28	27, 28	47·3	33·9	40·9	+ 0·5	4	0·44	11	- 2	1·1	+ 0·1	15	2	21	34·0	-5·3	39·3	-3·1	Southport.
a Hawarden Bridge ..	22	57	29th	24	28th	?48·9	?32·6	?41·1	+ 0·4	?5	0·28	7	- 4	*2·2*	—	*30*	3	24	*	*	*	*	*Liverpool.*
p Manchester (Whit. Pk.)	125	53	29th	25	27th	43·7	35 0	39·5	+ 0·2	4	0·94	24	+ 8	*0·0*	—	*0*	2	26	35·6	-4·7	41·8	-2·7	*Manchester (City)*
														0·3	- *0·1*	*4*	*	*	*	*	*	*	" *(Whit. Park)*
b, NORTH WALES.																							
p Llandudno	71	57	29th	30	27th	49·6	37·7	43·9	+ 1·6	5	0·59	15	0	2·1	+ 0·8	29	*	*	*	*	*	*	Llandudno.
a Holyhead	15	51	28–30	33	27th	48·1	38·6	43·5	+ 1·0	6	0·96	24	+ 4	*2·5*	—	*34*	*	*	*	*	*	*	*Holyhead.*
p Bettws-y-Coed ..	148	52	29th	25	27th	45·7	35·1	40·6	- 1·2	6	1·83	46	—	0·9	—	12	*	*	37·9	-3·8	43·0	-1·9	Bettws-y-Coed.
														1·7	—	23	*	*	*	*	*	*	Aberdovey.

† Earth temperature at 3 ft

§ The temperature on the grass refers to Hereford.

DISTRICTS AND NAMES OF STATIONS REPORTING TEMPERATURE OF AIR AND RAINFALL.	Height above M.S.L. of ground by Rain Gauge	Temperature of the Air. In Degrees Fahrenheit.								Rainfall.				Bright Sunshine. Hours per Day.			Ground Temperature.						STATIONS REPORTING SUNSHINE AND TEMPERATURE ON THE GRASS AND IN THE GROUND.
		Highest.	Date.	Lowest.	Date.	Mean for the Week.			Deviation from Normal.	No. of Rain-Days.	Rainfall in the week.		Deviation from Normal.	Daily Mean	Deviation from Normal.	Percentage of possible duration.	Grass Min.		Earth 1 ft		Earth 4 ft.		
						Of Daily Max.	Of Daily Min.	Daily Mean.									Ground Frosts.	Lowest Reading.	Mean.	Deviation from average	Mean.	Deviation from average	
	Ft.	°F.		°F.		°F.	°F.	°F.	°F.		in.	mm.	mm.	hr.	hr.	%	°F.	°F.	°F.	°F.	°F.	°F.	
8. *a*, SOUTH WALES														1·7	—	33	*	*	*	*	*	*	Aberystwyth.
a Llangammarch Wells	550	—	—	—	—	—	—	—	—	—	—	—	—	*	*	*	*	*	*	*	*	*	Llangammarch.
a Pembroke	149	52	28, 29	34	27th	48·1	40·0	44·2	+ 0·3	5	0·72	18	− 5	?1·7	+ 0·2	22	*	*	*	*	*	*	Pembroke.
p Cardiff	202	55	28th	26	26, 27	45·7	35·3	40·7	+ 1·1	5	1·56	40	+ 14	*0·9*	—	*12*	3	18	37·4	−7·3	43·3	−1·8	*Cardiff.*
b, ENGLAND, S.W.																							
a Clifton	229	56	29th	26	28th	46·0	33·7	40·1	− 0·4	6	2·25	57	+ 38	*0·9*	—	*12*	3	24	*	*	*	*	*Clifton.*
a Shaftesbury	722	59	29th	29	28th	45·9	33·7	40·0	+ 1·3	4	0·54	14	− 5	*	*	*	*	*	37·4	*	41·9	*	Shaftesbury.
a Arlington	613	52	28, 29	26	27th	46·4	33·4	40·2	0·0	5	2·21	56	+ 20	*	*	*	*	*	*	*	*	*	Arlington.
a Newquay	*190*	*54*	*29th*	*32*	*27th*	*49·0*	*38·1*	*43·8*	− *0·8*	*5*	*1·24*	*32*	+ *10*	1·3	− 0·3	16	*	*	42·8	*	45·9	*	Newquay.
a Cullompton	202	56	30th	24	28th	47·4	30·9	39·5	− 0·9	4	0·97	25	+ 3	1·6	+ 0·3	21	5	18	38·1	*	*	*	Cullompton.
a Portland Bill	19	52	29th	26	25th	48·6	40·3	44·6	+ 1·7	4	1·14	29	—	*2·1*	—	*27*	*	*	*	*	*	*	*Weymouth.*
p Plymouth	116	53	29th	33	26th	49·3	39·0	44·4	+ 1·2	7	1·56	40	+ 15	1·4	− 0·2	18	*	*	40·0	−4·9	44·0	*	Plymouth.
a Falmouth	167	53	28, 29	33	28th	49·4	38·6	44·2	− 0·2	4	2·04	52	+ 19	1·1	− 0·7	14	3	25	41·0	*	44·6	*	Falmouth.
9. IRELAND, N.																							
a, West .. { *a* Malin Head	208	51	28th	35	24, 26, 28	47·0	38·6	43·0	+ 1·5	6	0·41	10	− 7	*1·5*	—	*22*	*	*	*	*	*	*	*Malin Head.*
a Blacksod Point ..	327	51	27, 28	35	24th	48·1	40·0	44·2	+ 1·0	6	0·79	20	− 12	*	*	*	*	*	*	*	*	*	*
p Markree Castle ..	122	53	28, 29	23	27th	47·0	33·4	40·5	+ 0·4	6	1·23	31	+ 6	1·7	+ 0·6	24	4	22	38·7	*	43·7	*	Markree Castle.
a Birr Castle	175	59	28th	23	27th	47·9	34·7	41·6	+ 1·4	6	0·79	20	+ 3	*2·8*	+ *1·4*	*38*	4	17	*	*	*	*	*Birr Castle.*
b, East .. { *p* Armagh	196	53	28th	26	27th	46·6	36·1	41·6	+ 1·8	6	0·85	22	+ 7	2·2	+ 0·9	31	1	21	39·4	−2·2	43·6	−1·1	Armagh.
a Donaghadee	101	54	28th	30	27th	47·1	36·1	41·8	+ 0·6	6	0·48	12	− 5	*	*	*	*	*	*	*	*	*	*
																	3	15	39·5	−2·6	43·6	−1·6	Trinity Coll.
10. IRELAND, S.														1·9	+ 0·2	26	4	14	*	*	*	*	Phœnix Park.
a, East .. { *p* Dublin, City	47	55	28, 29	26	27th	46·9	37·7	42·5	+ 0·3	4	0·38	10	− 2	*	*	*	3	23	*	*	*	*	Dublin City.
a Kilkenny	212	54	28th	29	27th	47·9	32·9	40·7	0·0	5	0·78	20	+ 1	*	*	*	*	*	*	*	*	*	*
a Waterford	20	54	30th	24	27th	48·7	34·6	41·9	+ 0·1	4	0·82	21	− 3	*	*	*	*	*	*	*	*	*	*
a Seskin, Carrick-on-Suir	*541*	*54*	*28, 29*	*31*	*27th*	*47·6*	*38·6*	*43·3*	—	*5*	*0·44*	*11*	—	*3·0*	—	*40*	2	21	*	*	*	*	*Seskin.*
b, West .. { *a* Birr Castle	175	59	28th	23	27th	47·9	34·7	41·6	+ 1·4	6	0·79	20	+ 3	2·8	+ 1·4	38	4	17	*	*	*	*	Birr Castle.
a Foynes	50	55	28th	24	27th	48·3	36·1	42·4	− 0·3	6	1·52	39	+ 15	*	*	*	*	*	*	*	*	*	*
a Cahir	198	53	28, 30	20	27th	47·9	33·0	40·8	− 1·4	5	1·06	27	—	*	*	*	*	*	*	*	*	*	*
a Killarney	174	56	30th	30	26, 27	49·5	38·5	44·2	+ 1·2	6	0·94	24	− 16	*	*	*	*	*	*	*	*	*	*
a Cahirciveen (Val. Obs.)	30	54	28th	30	27th	50·1	40·4	45·4	+ 0·2	4	1·04	26	− 10	1·8	+ 0·4	24	*	*	*	*	*	*	Valencia.
a Roche's Point	32	53	29th	34	27th	49·3	41·1	45·4	+ 1·0	7	1·05	27	− 3	1·9	—	25	*	*	*	*	*	*	Ballinacurra.
11. ENGLISH CHANNEL.																							
a Scilly, St. Mary's ..	131	53	29th	40	27th	50·1	43·4	46·9	− 0·2	6	1·20	30	+ 8	0·9	− 0·7	11	*	*	*	*	*	*	Scilly.
a Jersey, St. Aubins ..	25	54	29th	34	28, 29	50·4	39·7	45·3	+ 1·3	6	1·63	41	+ 20	1·3	− 0·7	18	*	*	*	*	*	*	St. Heliers.
a Guernsey (Villa Carey)	180	53	29th	38	28th	50·1	42·6	46·5	+ 1·8	6	1·85	47	+ 24	1·6	+ 0·1	20	0	32	44·0	−1·8	46·3	−2·4	Guernsey.†

† The Earth temperature and grass minimum values for Guernsey are from observations made at Brooklyn.

IV.—SUMMARY of AUTOGRAPHIC RECORDS of WIND. [1914.]

Week ending at midnight (24h.) on Saturday, December 30th, 1916.

DISTRICT AND STATION.	Height.			Distribution of Wind.								Extreme Velocities.					
	Above Mean Sea Level.	Above Ground.	Above Building.	Gales, force 8 or more.		High Winds, forces 6 and 7.		Fresh or Moderate Winds, forces 4 and 5.	Light Winds, forces 2 and 3.	Calms and Light Airs, forces 0 and 1.	No Record.	Highest Hourly Wind.			Highest Gust with Date and Time, G.M.T.		
				Dates of Occurrence.	Duration.	Dates of Occurrence.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Velocity.		Date and Hour, G.M.T.			
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		m/s.		m/s.	d.	h. m.
1. SCOTLAND, E.																	
Dyce	305	75	‡15**	—	—	—	—	5	73	69	21	—	8	28th 10h.	15	28th	10 . 15
Aberdeen*	153	105	{57 ‡ / 52 †}	—	—	—	—	16	128	24	0	S. by W.	7	28th 7h.	15	25th	11 . 15
Edinburgh	485	39	31	28th	2	25, 27 to 30	25	103	36	2	0	S. by W.	20	28th 8h.	30	28th	7 . 55
6 SCOTLAND, W.																	
Eskdalemuir	825	50	22	—	—	25, 26, 28 to 30	23	82	39	24	0	SSW.	14	28th 7h.	22	28th	7 . 40
Paisley	188	81	52	—	—	28th	2	54	98	14	0	SW. by S.	12	28th 6h.	24	28th	15 . 45
2. ENGLAND, N.E.																	
Alnwick Castle	340	70	17	—	—	—	—	39	107	21	1	SW. by W.	8	28th 19h.	16	28th	18 . 35
South Shields	72	61	12	—	—	29th	6	59	91	12	0	W. by N.	12	29th 18h.	19	29th	17 . 25
Spurn Head	66	40	‡	—	—	—	—	—	—	—	—	—	—	— —	—	—	—
3. ENGLAND, E.																	
Gorleston	52	42	‡	—	—	25th	2	49	114	3		—	11	25th 7h.	16	29th	13 . 30
Shoeburyness	103	90	‡	—	—	24, 25	4	79	70	15	0	—	15	25th 4h.	20	25th	4 . 5
4. MIDLAND COUNTIES.																	
Benson	270	84	‡	—	—	29th	6	46	57	59	0	SW. by S.	14	29th 12h.	21	29th	11 . 20
5. ENGLAND, S.E.																	
Dover	271	40	‡	—	—	25, 28, 29	20	68	42	30	8	—	16	29th 15h.	23	29th	14 . 45
Warlingham	642	33	‡	—	—	—	—	45	80	43	0	—	10	29th 13h.	21	29th	10 . 25
Brighton	261	53	6	—	—	25th	2	42	96	19	9	—	12	25th 2h.	19	25th	3 . 25
Richmond (Kew Obs.)..	82	65	{6 ‡ / 22 †}	—	—	29th	2	43	64	56	3	SW.	11	29th 13h.	19	29th	12 . 5
South Kensington‖ ..	123	92	30	—	—	—	—	—	—	—	—	—	—	— —	—	—	—
7. ENGLAND, N.W.																	
Carnforth	246	56	23	—	—	—	—	45	86	37	0	SW.	10	30th 24h.	16	30th	23 . 40
Southport	80	62	48	—	—	24, 25, 29, 30	29	80	59	0	0	SW. by W.	14	30th 24h.	19	30th	23 . 55
Holyhead*	60	40	‡	—	—	24 to 26, 28, 30	48	89	22	9	0	W.	14	25th 14h.	20	25th	17 . 20
8. ENGLAND, S.W.																	
Pendennis Castle§ ..	256	65	24	29th	11	24, 28 to 30	42	59	49	4	3	SW.	20	29th 14h.	28	29th	11 . 10
Plymouth	185	88	2	—	—	24, 28, 29	16	60	80	12	0	—	13	29th 13h.	19	29th	13 . 20
Lyme Regis	556	61	‡	—	—	24, 25, 29, 30	10	62	55	41	0	—	14	29th 15h.	19	29th	14 . 50
10. IRELAND, S.																	
Quilty	100	40	‡	—	—	24, 25, 28 to 30	37	88	8	0	35	—	14	30th 21h.	21	25th	6 . 50
Weaver Pt.	160	30	‡	—	—	28, 29	10	63	80	11	4	—	14	29th 9h.	21	29th	8 . 30
11. ENGLISH CHANNEL.																	
Scilly*	150	{32 ‡ / 19 ‡}	‡	—	—	24, 25, 29, 30	30	75	49	14	0	WSW.	13	29th 9h.	19	29th	8 . 20

* Wind Direction at these stations is taken from the Robinson Instrument. At Scilly the value 19 refers to the Robinson Cup Anemometer.
‡ Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. ** Above tops of trees.
† Of the two values given for Aberdeen and Kew the former is the height of the Anemometer vane above the highest part of the building (tower at Aberdeen, staging at Kew) and the latter is the height of the vane above the main roof. ‖ The Anemograph at S. Kensington was dismounted on November 9th.

V.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

[Temperature and Rainfall 1878, Sunshine 1884, Pressure 1914.]

Explanation of the Summary.—The Distribution of the Districts, and the Stations from which reports are received, are shown on the previous pages. TEMPERATURE—The Temperature of the Air is obtained from thermometers placed in a louvred screen about 4 feet above the ground. *The Daily Mean* is obtained from the maxima and minima by applying a suitable correction. The *Normal for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1881-1905), but for districts 0, 1, and 6, the normals for district temperature are for 20 years only. The means of daily maximum, minimum and mean temperature and the deviation of the mean temperature from the normal are expressed in degrees absolute (see Note 4 on first page of this issue). The highest and lowest readings of air temperature are expressed in degrees Fahrenheit. ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1°F. continued for 24 hours or any other number of degrees, for an inversely proportional number of hours. The *Normals* with which the current values are compared are those for the corresponding period in the twenty-five years 1881-1905. PRESSURE—The District Values are obtained from the observations at 7 a.m. and 6 p.m. at the stations of the Daily Weather Report.

FIFTY-SECOND WEEK—December 24th to December 30th, 1916.

DISTRICTS. (See Frontispiece map.)	Temperature of the Air.										Rainfall.					Sunshine.			Pressure Mean for the Week at M.S.L.
	Highest.	Lowest.	Means of				Accumulated Number of Day-Degrees.				Number of Rain-Days.	Deviation from Normal.	Total Fall.		Deviation from Normal.	Daily Mean.	Deviation from Normal.	Percentage of Possible Duration.	
			Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.	Above 42°	Deviation from Normal.	Below 42°	Deviation from Normal.									
	°F.	°F.	a. 200+	a. 200+	a. 200+	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.
0. SCOTLAND, NORTH ...	52	28	80·1	75·4	77·8	+ 1·3	8	+ 1	23	− 11	7	+ 2	2·26	57	+ 28	0·3	−0·3	5	998
Eastern.																			
1. SCOTLAND, EAST ...	53	20	79·6	73·8	76·8	+ 1·1	5	− 1	33	− 10	5	+ 1	0·70	18	+ 3	1·2	+0·3	19	1001
2. ENGLAND, N.E.	55	21	79·7	74·3	77·1	+ 0·8	6	− 1	29	− 7	4	+ 1	0·38	10	0	1·4	+0·3	20	1007
3. ENGLAND, EAST ...	58	22	80·3	73·7	77·1	+ 1·0	9	+ 1	35	− 6	5	+ 1	0·58	15	+ 5	1·6	+0·3	21	1011
4. MIDLAND COUNTIES ...	58	20	80·4	73·1	76·9	+ 0·9	9	0	39	− 2	4	0	0·61	16	+ 3	0·9	−0·2	13	1011
5. ENGLAND, S.E.	55	21	80·7	74·6	77·8	+ 0·6	11	− 2	30	0	4	0	0·91	23	+ 10	1·5	+0·1	19	1013
Western.																			
6. SCOTLAND, WEST ...	53	26	80·8	76·2	78·6	+ 1·6	19	+ 10	12	− 17	6	+ 1	1·47	37	+ 8	1·4	+0·5	20	1005
7. ENGLAND, N.W.	57	24	80·9	74·8	78·0	+ 0·9	12	+ 2	28	− 1	5	+ 1	1·11	28	+ 11	1·3	+0·4	18	1009
8. ENGLAND, S.W.	59	24	81·6	75·3	78·6	+ 0·4	15	− 2	17	− 4	5	+ 1	1·44	37	+ 13	1·5	+0·1	19	1012
9. IRELAND, NORTH ...	59	23	81·5	75·5	78·6	+ 0·8	24	+ 11	15	− 8	6	+ 2	0·76	19	− 2	2·0	+0·9	27	1007
10. IRELAND, SOUTH ...	59	20	82·2	75·6	79·0	+ 0·2	28	+ 7	15	− 3	5	0	0·93	24	− 3	2·1	+0·7	28	1009
11. ENGLISH CHANNEL ...	54	34	83·1	78·5	80·9	+ 0·7	30	+ 2	0	− 7	6	+ 1	1·56	39	+ 19	1·3	−0·6	16	1014

THE SEASON (**Winter**).—Aggregates, &c., for the Period of 4 Weeks, December 3rd to December 30th, 1916.

0. SCOTLAND, NORTH ...	52	23	78·4	74·0	76·3	− 0·6	10	− 24	133	+ 11	22	+ 1	4·64	117	− 17	0·5	−0·1	8	998
Eastern.																			
1. SCOTLAND, EAST ...	53	11	77·5	72·2	75·0	− 1·1	5	− 25	194	+ 38	19	+ 2	3·33	84	+ 18	1·1	+0·1	16	999
2. ENGLAND, N.E.	55	13	77·7	72·8	75·4	− 1·5	6	− 29	173	+ 48	19	+ 5	3·01	76	+ 25	1·2	0·0	16	1001
3. ENGLAND, EAST ...	58	20	78·2	73·0	75·7	− 1·0	9	− 30	161	+ 18	18	+ 2	2·78	71	+ 26	0·9	−0·5	12	1002
4. MIDLAND COUNTIES ...	58	16	77·3	71·5	74·5	− 2·1	9	− 33	221	+ 74	16	+ 1	2·59	66	+ 12	0·9	−0·3	12	1002
5. ENGLAND, S.E.	55	19	78·6	73·4	76·1	− 1·7	12	− 51	151	+ 50	17	+ 1	3·75	95	+ 37	1·1	−0·3	15	1003
Western.																			
6. SCOTLAND, WEST ...	53	19	78·5	73·9	76·3	− 1·4	22	− 26	135	+ 39	22	+ 3	4·59	117	− 6	1·4	+0·4	20	1000
7. ENGLAND, N.W.	57	22	78·3	73·0	75·7	− 1·9	12	− 37	163	+ 64	19	+ 2	2·87	73	− 4	1·5	+0·5	21	1001
8. ENGLAND, S.W.	59	20	79·1	73·4	76·3	− 2·4	20	− 60	141	+ 71	18	0	4·31	109	+ 6	2·1	+0·6	27	1002
9. IRELAND, NORTH ...	59	21	78·9	74·0	76·6	− 1·4	30	− 25	129	+ 42	21	+ 1	3·44	87	0	1·9	+0·7	26	1000
10. IRELAND, SOUTH ...	59	18	79·1	73·3	76·3	− 2·7	36	− 55	150	+ 84	22	+ 3	3·33	85	− 20	1·8	+0·3	24	1002
11. ENGLISH CHANNEL ...	55	30	81·5	77·1	79·4	− 1·3	80	− 49	36	+ 17	23	+ 3	4·84	122	+ 32	2·2	+0·4	28	1003

THE YEAR.—Aggregates, &c., for the Period of 52 Weeks, January 2nd to December 30th, 1916.

0. SCOTLAND, NORTH ...	81	20	83·6	78·0	80·7	+ 0·1	2047	− 65	632	−164	253	+ 6	57·22	1451	+122	2·5	−0·5	21	1008
Eastern.																			
1. SCOTLAND, EAST ...	82	7	84·1	77·2	80·5	− 0·2	2176	−177	892	− 36	224	+21	41·75	1061	+281	3·1	−0·5	25	1009
2. ENGLAND, N.E.	84	13	85·2	78·5	81·7	+ 0·2	2741	+100	619	− 66	199	+15	28·03	714	+ 83	3·4	−0·6	28	1010
3. ENGLAND, EAST ...	83	20	85·9	78·9	82·3	+ 0·3	3042	− 5	579	−185	197	+18	28·36	720	+124	3·6	−0·7	30	1012
4. MIDLAND COUNTIES ...	84	16	86·0	78·2	81·9	+ 0·1	2992	+ 30	724	− 74	191	+14	29·52	753	+ 85	3·3	−0·5	27	1012
5. ENGLAND, S.E.	86	15	86·4	79·4	82·8	0·0	3307	− 23	498	− 51	190	+18	33·80	860	+177	4·0	−0·4	33	1012
Western.																			
6. SCOTLAND, WEST ...	83	17	84·9	78·6	81·7	+ 0·1	2606	+ 24	539	− 64	237	+23	47·04	1200	− 24	3·5	−0·2	29	1010
7. ENGLAND, N.W.	83	8	85·3	79·2	82·1	+ 0·1	2872	+ 48	501	− 46	209	+12	36·86	938	+ 53	3·5	−0·3	29	1011
8. ENGLAND, S.W.	84	17	86·1	79·7	82·7	0·0	3191	− 2	456	+ 34	206	+ 9	43·70	1117	+134	4·0	−0·3	33	1012
9. IRELAND, NORTH ...	81	18	85·0	79·0	81·9	0·0	2732	+ 28	493	− 10	250	+18	41·03	1048	+ 72	3·2	−0·3	26	1010
10. IRELAND, SOUTH ...	85	18	86·1	79·7	82·8	+ 0·1	3239	+ 87	410	+ 25	257	+49	44·68	1131	+110	3·7	−0·3	30	1012
11. ENGLISH CHANNEL ...	80	30	86·7	81·6	84·1	0·0	3777	− 15	131	− 1	211	− 1	37·46	946	+118	4·8	−0·4	40	1013
	°F.	°F.	a.	a.	a.	a.	day-deg. F.	day-deg. F.	day-deg. F.	day-deg. F.			inches.	mm.	mm.	hr.	hr.	%	mb.

METEOROLOGICAL OFFICE, LONDON : SIR NAPIER SHAW, F.R.S., Director. F. J. W. WHIPPLE, M.A., Superintendent of Statistics, South Kensington, S.W., January 5th, 1917.

(8034—19.) Wt. 79a—736. 450. 5/16. D & S. G. 17/37.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT, 1916. FIRST QUARTER (JANUARY, FEBRUARY, MARCH).

Thirty-ninth Year. | APPENDIX I.
VOL. XXXIII. [*New Series.*] | 1st Quarter.

A DULL QUARTER: VERY WET IN EASTERN DISTRICTS.

[*Price* 4*d.*

SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE DURING THE THIRTY-SIX YEARS, 1881–1916.

TABLE I.—RAINFALL—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE NORMALS FOR 35 YEARS, 1881–1915.

YEARS.	0. SCOTLAND, N.			Eastern Districts. 1. SCOTLAND, E.			2. ENGLAND, N.E.			3. ENGLAND, E.			4. MIDLAND COUNTIES.			5. ENGLAND, S.E.			DISTRICTS 1–5.		
	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.
		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%
LUSTRA.* 1881-1885 ..	65	*361*	*96*	49	*211*	*114*	45	130	100	44	*124*	*97*	45	163	109	43	163	101	45	157	104
1886-1890 ..	66	*368*	*98*	52	168	91	47	130	100	47	*114*	*89*	43	132	89	44	137	85	47	137	91
1891-1895 ..	64	353	94	48	173	94	49	130	100	48	*112*	*88*	45	124	83	43	135	83	47	135	89
1896-1900 ..	67	371	99	53	170	92	49	137	105	49	*137*	*107*	46	155	104	44	165	102	48	152	101
1901-1905 ..	69	*419*	*112*	55	193	104	47	117	90	48	*117*	*91*	48	157	105	48	168	104	49	150	99
1906-1910 ..	69	384	102	52	188	102	47	124	95	49	*127*	*99*	46	135	91	48	155	96	48	145	96
1911-1915 ..	65	368	98	57	198	107	55	141	111	55	162	127	50	177	119	51	209	129	54	178	118
35 years normal ..	**67**	**375**	—	**53**	**185**	—	**48**	**130**	—	**48**	**128**	—	**47**	**149**	—	**46**	**162**	—	**48**	**151**	—
1916	73	471	126	63	253	137	57	180	138	59	211	165	58	235	158	60	249	154	59	226	150

YEARS.	Western Districts. 6. SCOTLAND, W.			7. ENGLAND, N.W. AND N. WALES.			8. S. WALES AND ENGLAND, S.W.			9. IRELAND, N.			10. IRELAND, S.			DISTRICTS 6–10.			11. ENGLISH CHANNEL.			DISTRICTS 1–10 COMBINED.		
	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.
		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%
LUSTRA.* 1881-1885 ..	58	*335*	*109*	51	224	108	53	246	100	61	239	101	57	302	115	56	269	107	57	208	101	5	*213*	*105*
1886-1890 ..	53	274	89	50	175	85	49	211	86	56	213	90	50	241	92	52	224	89	57	180	87	49	180	89
1891-1895 ..	53	267	86	47	170	82	47	206	84	55	198	84	49	216	82	50	211	84	52	180	87	49	173	86
1896-1900 ..	58	*292*	*95*	53	211	102	54	264	108	61	221	94	53	251	95	56	249	99	58	211	102	52	201	100
1901-1905 ..	61	*348*	*113*	56	213	103	54	254	104	67	262	111	60	290	110	60	274	108	61	221	107	51	213	105
1906-1910 ..	56	323	105	55	226	109	54	234	96	66	267	113	63	244	93	59	259	103	56	196	95	54	203	100
1911-1915 ..	58	323	105	54	229	111	59	299	122	60	246	104	65	296	113	59	278	110	59	247	120	57	228	113
35 years normal ..	**56**	**309**	—	**52**	**207**	—	**53**	**245**	—	**61**	**236**	—	**56**	**263**	—	**56**	**252**	—	**57**	**206**	—	**52**	**202**	—
1916	62	274	89	61	234	113	65	309	126	63	215	91	71	246	94	65	256	101	70	299	145	62	241	119

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910. The values for 1911 to 1915 are given in the corresponding appendix for 1915.

Investigation has shown that in some districts the selection of stations has not been such as to give results comparable with those now being issued. In these cases the earlier figures have been revised in order to make them as comparable with the current ones as possible. All values revised are shown in italic type. Particulars of the changes made will be published in a Report on the Seasons of the British Islands now in course of preparation. The 35 years normal in each district is shown in clarendon type.

NOTE.—Previous to 1914 the values were for periods of 13 weeks coinciding most nearly with the periods of three months January, February, March, etc. In the years 1880, 1886, 1890, 1896, 1902, 1908, 1913, the values for the fourth quarter refer to a period of 14 weeks. In 1914, 1915, and 1916 the values refer to the period January 1st to March 31st.

TABLE II.—Mean Temperature in Degrees Absolute and Deviation from Normal for 35 Years, 1881-1915.

Years.		0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Districts 1-5.		Western Districts. 6. Scotland, W.		7. England, N.W. and N. Wales.		8. S. Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Districts, 6-10.		11. English Channel.		Districts 1-10 combined.	
		°A. 200+	Devn.	°A. 200+	Devn.	°A. 200+	Devn.	°A. 200+	Devn.	°A. 200+	Devn.	°A. 200+	Devn.	°A. 200+	Devn.	°A. 200+	Devn.	°A. 200+	Devn.	°A. 200+	Devn.	°A. 200+	Devn.	°A. 200+	Devn.	°A. 200+	Devn.	°A. 200+	Devn.	°A. 200+	Devn.
Lustra.*	1881-1885 ..	*76·4*	*− 0·2*	*76·3*	*0·0*	77·1	0·0	77·3	+ 0·2	77·4	+ 0·3	78·2	+ 0·4	77·3	+ 0·2	*77·4*	*0·0*	77·7	+ 0·1	78·9	+ 0·6	78·2	+ 0·1	79·2	+ 0·3	78·3	+ 0·2	80·2	+ 0·2	77·8	+ 0·2
	1886-1890 ..	*76·4*	*− 0·2*	76·2	− 0·1	76·5	− 0·6	76·0	− 1·1	76·2	− 0·9	76·8	− 1·0	76·3	− 0·8	77·0	− 0·4	76·8	− 0·8	77·6	− 0·7	77·7	− 0·4	78·4	− 0·5	77·5	− 0·6	79·2	− 0·8	76·9	− 0·7
	1891-1895 ..	76·0	− 0·6	75·7	− 0·6	76·3	− 0·8	76·1	− 1·0	76·2	− 0·9	76·9	− 0·9	76·2	− 0·9	76·7	− 0·7	76·9	− 0·7	77·7	− 0·6	77·5	− 0·6	78·4	− 0·5	77·4	− 0·7	79·4	− 0·6	76·8	− 0·8
	1896-1900 ..	76·7	+ 0·1	76·6	+ 0·3	77·4	+ 0·3	77·5	+ 0·4	77·5	+ 0·4	78·4	+ 0·6	77·5	+ 0·4	77·7	+ 0·3	78·1	+ 0·5	78·9	+ 0·6	78·3	+ 0·2	79·3	+ 0·4	78·4	+ 0·3	80·7	+ 0·7	78·0	+ 0·4
	1901-1905 ..	76·8	+ 0·2	76·5	+ 0·2	77·4	+ 0·3	77·5	+ 0·4	77·4	+ 0·3	78·1	+ 0·3	77·4	+ 0·3	77·7	+ 0·3	77·8	+ 0·2	78·7	+ 0·4	78·1	0·0	79·1	+ 0·2	78·2	+ 0·1	80·3	+ 0·3	77·8	+ 0·2
	1906-1910 ..	76·5	− 0·1	76·2	− 0·1	76·9	− 0·2	77·0	− 0·1	76·9	− 0·2	77·4	− 0·4	76·9	− 0·2	77·4	0·0	77·3	− 0·3	77·9	− 0·4	78·2	+ 0·1	78·9	0·0	77·9	− 0·2	79·9	− 0·1	77·4	− 0·2
	1911-1915 ..	77·2	+ 0·6	76·7	+ 0·4	77·7	+ 0·6	78·1	+ 1·0	77·7	+ 0·6	78·5	+ 0·7	77·7	+ 0·6	77·7	+ 0·3	78·2	+ 0·6	78·7	+ 0·4	78·3	+ 0·2	79·1	+ 0·2	78·4	+ 0·3	80·3	+ 0·3	78·1	+ 0·5
35 years normal	..	**76·6**	—	**76·3**	—	**77·1**	—	**77·1**	—	**77·1**	—	**77·8**	—	**77·1**	—	**77·4**	—	**77·6**	—	**78·3**	—	**78·1**	—	**78·9**	—	**78·1**	—	**80·0**	—	**77·6**	—
1916 ..	..	76·8	+ 0·2	76·3	0·0	77·5	+ 0·4	77·9	+ 0·8	77·6	+ 0·5	78·5	+ 0·7	77·6	+ 0·5	77·5	+ 0·1	78·2	+ 0·6	78·6	+ 0·3	78·1	0·0	78·9	0·0	78·2	+ 0·1	80·1	+ 0·1	77·9	+ 0·3

The mean temperature is calculated from the observed maximum and minimum readings by applying a correction as detailed in the introduction to this and previous volumes.

TABLE III.—Bright Sunshine, in Thousand-hours, and Daily Means, with Percentages of Normal for 35 Years, 1881-1915.

Years.		Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.
Lustra.*	1881-1885 ..	*·17*	1·9	% *97*	*·24*	2·6	% *105*	*·22*	2·4	% *91*	·25	2·7	% 98	·22	2·4	% 88	·25	2·7	% 98	·24	2·6	% 100	·19	2·1	% 93	·19	2·1	% 87	*·24*	2·6	*94*	·22	2·4	% 102	·25	2·7	% 100	·22	2·4	% 96	·32	3·5	% 104	·23	2·5	% 98
	1886-1890 ..	*·16*	1·8	*92*	·21	2·3	93	*·23*	2·5	*95*	·23	2·5	91	·20	2·2	90	·20	2·2	80	·21	2·3	88	·20	2·2	97	·21	2·3	95	*·24*	2·6	*94*	·20	2·2	93	·25	2·7	100	·22	2·4	96	·30	3·3	98	·22	2·4	94
	1891-1895 ..	*·21*	2·3	*117*	·26	2·9	*117*	·29	3·2	*122*	·29	3·2	116	·27	3·0	123	·30	3·3	120	·28	3·1	119	·24	2·6	114	*·24*	2·6	*107*	*·30*	3·3	*119*	·24	2·6	110	·27	3·0	111	·26	2·9	115	·36	3·9	116	·27	3·0	117
	1896-1900 ..	·18	2·0	102	*·22*	2·4	97	·23	2·5	*95*	·25	2·7	98	·22	2·4	98	·24	2·6	94	·23	2·5	96	·20	2·2	97	·22	2·4	99	*·24*	2·6	*94*	·22	2·4	102	·25	2·7	100	·23	2·5	100	·28	3·1	93	·23	2·5	98
	1901-1905 ..	·16	1·8	92	·19	2·1	85	·22	2·4	91	·25	2·7	98	·19	2·1	86	·24	2·6	94	·22	2·4	92	·19	2·1	93	·21	2·3	95	*·23*	2·5	*90*	·20	2·2	93	·22	2·4	89	·21	2·3	92	·27	3·0	90	·22	2·4	94
	1906-1910 ..	·19	2·1	107	·25	2·7	109	·28	3·1	118	·28	3·1	112	·26	2·9	119	·30	3·3	120	·27	3·0	115	·22	2·4	106	·26	2·9	120	·29	3·2	115	·22	2·4	102	·24	2·6	96	·25	2·7	107	·33	3·6	107	·26	2·9	113
	1911-1915 ..	·17	1·9	97	·20	2·3	93	·21	2·3	87	·22	2·5	91	·19	2·1	86	·23	2·5	91	·21	2·3	88	·19	2·1	93	·21	2·4	99	·22	2·4	86	·20	2·3	97	·23	2·6	96	·21	2·3	92	·26	2·9	87	·21	2·3	90
35 years normal	..	**·18**	**2·0**	—	**·23**	**2·5**	—	**·24**	**2·6**	—	**·25**	**2·8**	—	**·22**	**2·4**	—	**·25**	**2·8**	—	**·24**	**2·6**	—	**·21**	**2·3**	—	**·22**	**2·4**	—	**·25**	**2·8**	—	**·22**	**2·4**	—	**·24**	**2·7**	—	**·23**	**2·5**	—	**·31**	**3·4**	—	**·23**	**2·6**	—
1916 ..	..	·17	1·9	94	·20	2·2	89	·20	2·2	83	·18	2·0	73	·16	1·8	74	·20	2·2	79	·19	2·1	80	·19	2·1	93	·16	1·8	76	·20	2·2	80	·21	2·3	97	·21	2·3	87	·20	2·2	86	·24	2·6	76	·20	2·1	83

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910. The values for 1911 to 1915 are given in the corresponding Appendix for 1915.

Meteorological Office, South Kensington, London, S.W.
May 5th, 1916.

NAPIER SHAW,
Director.

METEOROLOGICAL OFFICE
25 FEB 1919
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WEEKLY WEATHER REPORT, 1916. SECOND QUARTER (APRIL, MAY, JUNE).

Thirty-ninth Year. | APPENDIX I.
VOL. XXXIII. [*New Series.*] | 2nd Quarter.

A RATHER WET, DULL AND COLD QUARTER.

[*Price* 4*d.*

(8775—19.) Wt. 79a—736. 450. 9/16. D & S. G 17/27.

SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE DURING THE THIRTY-SIX YEARS, 1881–1916.

TABLE I.—RAINFALL—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE NORMALS FOR 35 YEARS, 1881–1915.

YEARS.	0. Scot-land, N.			Eastern Districts.														6. Scot-land, W.			7. England, N.W. and N. Wales.			8. S. Wales and England, S.W.			9. Ireland, N.			10. Ireland, S.			Districts 6-10.			11. English Channel.			Districts 1-10 combined.		
				1. Scot-land, E.			2. England, N.E.			3. England, E.			4. Midland Counties.			5. England, S.E.			Districts 1-5.																							
	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.
		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%
Lustra.* 1881-1885 ..	51	*216*	*98*	44	*163*	*102*	43	147	107	39	150	110	41	165	109	38	142	104	41	152	106	47	*213*	*99*	42	178	104	44	183	104	52	183	95	46	196	101	46	191	101	45	142	101	44	173	103
1886-1890 ..	54	*196*	*89*	43	152	96	40	122	88	41	130	96	41	163	108	40	145	106	41	142	99	45	224	104	41	165	97	42	165	94	46	180	94	46	191	98	44	185	97	46	150	106	43	165	99
1891-1895 ..	48	180	82	42	140	88	40	132	96	36	122	90	35	130	86	32	97	71	37	124	87	42	170	79	40	152	89	35	135	77	47	168	88	41	180	92	41	160	84	36	119	84	39	142	85
1896-1900 ..	54	226	103	48	175	110	42	137	99	40	137	101	40	147	97	37	127	93	42	145	101	50	*239*	*111*	45	185	108	41	185	105	55	231	120	47	216	111	48	211	111	42	142	101	45	178	107
1901-1905 ..	54	231	105	48	150	94	40	127	92	39	145	107	40	145	96	39	155	114	41	145	101	46	*218*	*101*	44	150	88	41	185	105	53	180	94	46	183	94	46	183	96	45	157	111	44	163	98
1906-1910 ..	59	246	112	52	183	115	47	155	112	43	157	115	46	170	113	43	163	120	46	165	115	51	246	114	50	201	118	48	203	115	58	221	115	56	211	108	53	218	115	41	142	101	50	191	114
1911-1915 ..	52	242	110	43	147	92	36	143	104	34	111	82	35	135	89	31	120	88	36	131	92	46	205	95	41	165	97	39	177	101	47	179	93	48	188	96	44	183	96	39	132	94	40	157	94
35 years normal ..	**53**	**220**	—	**46**	**159**	—	**41**	**138**	—	**39**	**136**	—	**40**	**151**	—	**37**	**136**	—	**41**	**143**	—	**47**	**216**	—	**43**	**171**	—	**41**	**176**	—	**51**	**192**	—	**47**	**195**	—	**46**	**190**	—	**42**	**141**	—	**44**	**167**	—
~~1916~~	61	265	121	52	255	160	45	153	111	44	151	111	43	137	91	40	133	98	45	166	116	53	266	123	46	205	120	45	179	102	60	270	141	59	257	132	52	236	124	39	90	64	49	201	120

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910. The values for 1911 to 1915 are given in the corresponding appendix for 1915.

Investigation has shown that in some districts the selection of stations has not been such as to give results comparable with those now being issued. In these cases the earlier figures have been revised in order to make them as comparable with the current ones as possible. All values revised are shown in italic type. Particulars of the changes made will be published in a Report on the Seasons of the British Islands now in course of preparation. The 35 years normal in each district is shown in clarendon type.

NOTE.—Previous to 1914 the values were for periods of 13 weeks coinciding most nearly with the periods of three months April, May, June, etc. In the years 1880, 1886, 1890, 1896, 1902, 1908, 1913, the values for the fourth quarter refer to a period of 14 weeks. In 1914, 1915, and 1916 the values refer to the period April 1st to June 30th.

TABLE II.—Mean Temperature in Degrees Absolute and Deviation from Normal for 35 Years, 1881-1915.

Lustra.* / Years.	0. Scotland, N.	Eastern Districts. 1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	Districts, 1-5.	Western Districts. 6. Scotland, W.	7. England, N.W. and N. Wales.	8. S. Wales and England, S.W.	9. Ireland, N.	10. Ireland, S.	Districts, 6-10.	11. English Channel.	Districts 1-10 combined.
	° A.	° A.	° A.	° A.	° A.	° A.	° A.	° A.	° A.	° A.	° A.	° A.	° A.	° A.	° A.
	200+ Devn.	200+ Devn.	200+ Devn.	200+ Devn.	200+ Devn.	200+ Devn.	200+ Devn.	200+ Devn.	200+ Devn.	200+ Devn.	200+ Devn.	200+ Devn.	200+ Devn.	200+ Devn.	200+ Devn.
1881-1885 ..	*81·7* *0·0*	*82·1* *− 0·1*	82·8 − 0·1	83·8 + 0·1	83·7 0·0	84·4 0·0	83·3 − 0·1	*82·7* *− 0·3*	83·2 − 0·2	83·6 − 0·4	83·1 − 0·1	83·6 − 0·4	83·3 − 0·2	84·3 − 0·4	83·3 − 0·2
1886-1890 ..	*81·7* *0·0*	82·2 0·0	82·5 − 0·4	83·6 − 0·1	83·5 − 0·2	84·2 − 0·2	83·2 − 0·2	82·8 − 0·2	83·2 − 0·2	83·8 − 0·2	83·2 0·0	83·9 − 0·1	83·4 − 0·1	84·4 − 0·3	83·3 − 0·2
1891-1895 ..	82·0 + 0·3	82·4 + 0·2	82·8 − 0·1	83·8 + 0·1	84·0 + 0·3	84·8 + 0·4	83·6 + 0·2	83·3 + 0·3	83·8 + 0·4	84·4 + 0·4	83·7 + 0·5	84·4 + 0·4	83·9 + 0·4	85·2 + 0·5	83·8 + 0·3
1896-1900 ..	81·9 + 0·2	82·4 + 0·2	82·9 0·0	83·8 + 0·1	83·8 + 0·1	84·6 + 0·2	83·5 + 0·1	83·2 + 0·2	83·8 + 0·4	84·3 + 0·3	83·5 + 0·3	84·4 + 0·4	83·8 + 0·3	85·0 + 0·3	83·7 + 0·2
1901-1905 ..	81·6 − 0·1	81·9 − 0·3	82·8 − 0·1	83·6 − 0·1	83·3 − 0·4	84·0 − 0·4	83·1 − 0·3	82·8 − 0·2	83·3 − 0·1	83·8 − 0·2	82·9 − 0·3	83·8 − 0·2	83·3 − 0·2	84·7 0·0	83·2 − 0·3
1906-1910 ..	81·3 − 0·4	81·7 − 0·5	82·9 0·0	83·7 0·0	83·4 − 0·3	83·9 − 0·5	83·2 − 0·2	82·7 − 0·3	83·1 − 0·3	83·5 − 0·5	82·7 − 0·5	83·6 − 0·4	83·1 − 0·4	84·6 − 0·1	83·2 − 0·3
1911-1915 ..	81·9 + 0·2	82·4 + 0·2	83·4 + 0·5	84·4 + 0·7	84·1 + 0·4	84·6 + 0·2	83·8 + 0·4	83·3 + 0·3	83·7 + 0·3	84·3 + 0·3	83·2 0·0	84·2 + 0·2	83·7 + 0·2	85·0 + 0·3	83·8 + 0·3
35 years normal ..	**81·7** —	**82·2** —	**82·9** —	**83·7** —	**83·7** —	**84·4** --	**83·4** —	**83·0** —	**83·4** —	**84·0** —	**83·2** —	**84·0** —	**83·5** —	**84·7** —	**83·5** —
1916	81·2 − 0·5	81·4 − 0·8	82·7 − 0·2	83·6 − 0·1	83·3 − 0·4	84·0 − 0·4	83·0 − 0·4	82·4 − 0·6	83·0 − 0·4	83·4 − 0·6	82·2 − 1·0	83·4 − 0·6	82·9 − 0·6	84·4 − 0·3	83·0 − 0·5

The mean temperature is calculated from the observed maximum and minimum readings by applying a correction as detailed in the introduction to this and previous volumes.

TABLE III.—Bright Sunshine, in Thousand-hours, and Daily Means, with Percentages of Normal for 35 Years, 1881-1915.

Lustra.* / Years.	0. Scotland, N.			1. Scotland, E.			2. England, N.E.			3. England, E.			4. Midland Counties.			5. England, S.E.			Districts, 1-5.		
	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.
1881-1885 ..	*·45*	4·9	*98*	*·50*	5·5	*98*	*·56*	6·1	*105*	·60	6·6	103	·52	5·8	100	·58	6·4	98	·55	6·1	101
1886-1890 ..	*·41*	4·5	*90*	·51	5·6	100	*·49*	5·4	*92*	·53	5·9	92	·48	5·2	91	·53	5·8	90	·51	5·5	93
1891-1895 ..	*·51*	5·6	*112*	*·55*	6·0	*108*	*·57*	6·3	*107*	·59	6·4	100	·56	6·2	108	·64	7·0	108	·58	6·4	106
1896-1900 ..	*·47*	5·2	*104*	*·50*	5·5	*98*	*·51*	5·6	*96*	·57	6·2	97	·53	5·8	101	·59	6·5	100	·51	5·9	99
1901-1905 ..	·48	5·3	105	·51	5·6	100	*·56*	6·2	*105*	·59	6·5	101	·52	5·7	99	·59	6·4	100	·55	6·1	101
1906-1910 ..	·45	4·9	98	·49	5·4	96	·50	5·5	94	·59	6·4	100	·51	5·6	97	·61	6·7	103	·54	5·9	98
1911-1915 ..	·44	4·9	97	·50	5·6	100	·53	5·9	101	·61	6·8	106	·53	5·9	103	·63	7·0	107	·57	6·3	103
35 years normal ..	**·46**	**5·0**	—	**·51**	**5·6**	—	**·53**	**5·9**	—	**·58**	**6·4**	—	**·52**	**5·7**	—	**·60**	**6·5**	—	**·5**	**6·0**	—
1916	·35	3·9	77	·40	4·4	79	·43	4·8	82	·51	5·7	89	·45	5·0	87	·57	6·3	96	·47	5·2	87

Lustra.* / Years.	6. Scotland, W.			7. England, N.W. and N. Wales.			8. S. Wales and England, S.W.			9. Ireland, N.			10. Ireland, S.			Districts, 6-10.			11. English Channel.			Districts 1-10 combined.		
	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.
1881-1885 ..	·54	5·9	100	·54	6·0	99	*·57*	6·2	*98*	·50	5·5	101	·56	6·1	103	·54	6·0	100	·70	7·7	104	·54	6·0	100
1886-1890 ..	53	5·9	99	·50	5·5	92	*·55*	6·0	*95*	·49	5·4	98	·54	5·9	100	·52	5·7	97	·64	7·0	95	·52	5·7	95
1891-1895 ..	·56	6·1	104	*·55*	6·1	*101*	*·63*	6·9	*108*	·52	5·7	104	·56	6·1	103	·56	6·2	114	·75	8·3	112	·57	6·3	106
1896-1900 ..	·53	5·9	99	·57	6·3	104	*·60*	6·6	*103*	·49	5·4	98	·54	5·9	99	·55	6·0	101	·69	7·5	101	·54	6·0	100
1901-1905 ..	·55	6·1	102	·59	6·4	107	*·56*	6·2	*97*	·52	5·7	104	·54	5·9	100	·55	6·1	102	·66	7·2	97	·55	6·1	101
1906-1910 ..	·52	5·7	96	·53	5·8	96	·57	6·2	98	·47	5·2	95	·51	5·6	95	·52	5·7	96	·65	7·1	96	·53	5·8	97
1911-1915 ..	·52	5·8	98	·56	6·2	102	·57	6·3	97	·49	5·4	98	·52	5·8	97	·53	5·9	99	·63	7·0	95	·55	6·1	101
35 years normal ..	**·54**	**5·9**	—	**·55**	**6·0**	--	**·58**	**6·4**	—	**·50**	**5·5**	—	**·54**	**5·9**	—	**·54**	**5·9**	—	**·67**	**7·4**	—	**·54**	**6·0**	—
1916	·52	5·8	98	·49	5·5	91	·55	6·1	95	·45	5·0	92	·53	5·9	99	·51	5·7	95	·64	7·1	96	·49	5·5	91

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910. The values for 1911 to 1915 are given in the corresponding Appendix for 1915.

Meteorological Office, South Kensington, London, S.W.
August 5th, 1916.

NAPIER SHAW,
Director.

(9525—19.) Wt. 79a—736. 450. 11/16. D & S. G 17/37.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT, 1916. THIRD QUARTER (JULY, AUGUST, SEPTEMBER).

Thirty-ninth Year. VOL. XXXIII. [*New Series.*] { APPENDIX I. 3rd Quarter.

RATHER LESS SUNNY BUT A LITTLE WARMER AND DRIER THAN THE NORMAL THIRD QUARTER. [*Price 4d.*

SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE OF THE THIRD QUARTER FOR THE THIRTY-SIX YEARS, 1881–1916.

TABLE I.—RAINFALL—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE NORMALS FOR 35 YEARS, 1881–1915.

YEARS.	0. SCOTLAND, N.			Eastern Districts. 1. SCOTLAND, E.			2. ENGLAND, N.E.			3. ENGLAND, E.			4. MIDLAND COUNTIES.			5. ENGLAND, S.E.			DISTRICTS 1-5.			Western Districts. 6. SCOTLAND, W.			7. ENGLAND, N.W. AND N. WALES.			8. S. WALES AND ENGLAND, S.W.			9. IRELAND, N.			10. IRELAND, S.			DISTRICTS 6-10.			11. ENGLISH CHANNEL.			DISTRICTS 1-10 COMBINED.		
	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amcunt.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.
		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%
LUSTRA.* 1881-1885 ..	56	*259*	*89*	51	*236*	*113*	46	185	108	45	*178*	*111*	45	191	110	44	168	101	46	191	109	53	*312*	*107*	49	249	106	52	254	111	60	262	105	53	259	106	53	267	107	54	193	107	50	229	107
1886-1890 ..	60	*292*	*100*	51	193	93	46	193	113	45	*175*	*109*	43	173	99	40	175	105	45	183	104	51	277	95	47	236	100	46	231	101	58	262	105	50	231	94	50	246	98	46	180	100	48	216	101
1891-1895 ..	65	361	123	53	236	113	47	185	108	45	*183*	*114*	45	178	102	45	206	124	47	198	113	52	312	107	50	272	115	49	264	115	60	264	106	51	264	108	52	274	110	48	226	124	50	236	110
1896-1900 ..	58	325	111	50	206	99	39	157	92	35	*137*	*85*	36	157	90	33	142	86	39	160	91	55	*310*	*107*	46	239	101	42	206	90	56	254	102	48	257	105	49	254	102	42	160	88	44	208	97
1901-1905 ..	63	305	104	53	203	98	42	168	98	36	*160*	*99*	40	191	110	39	178	107	42	180	102	51	*330*	*113*	49	213	90	46	231	101	61	274	110	52	259	106	52	262	105	49	188	103	47	221	103
1906-1910 ..	59	267	91	49	203	98	43	147	86	40	135	84	41	160	92	37	142	86	42	157	89	49	290	100	48	226	96	43	203	89	54	229	92	52	208	85	49	231	92	38	127	70	45	196	92
1911-1915 ..	52	234	80	43	180	87	40	164	96	38	157	98	37	168	97	34	149	90	38	164	93	44	205	70	41	214	91	40	216	94	50	205	82	51	238	97	45	215	86	38	189	105	42	190	89
35 years normal ..	**59**	**292**	—	**50**	**208**	—	**43**	**171**	—	**41**	**161**	—	**41**	**174**	—	**39**	**166**	—	**43**	**176**	—	**51**	**291**	—	**47**	**236**	—	**45**	**229**	—	**57**	**250**	—	**51**	**245**	—	**50**	**250**	—	**45**	**180**	—	**47**	**214**	—
1911	57	295	101	40	107	51	32	119	70	26	79	49	25	91	52	22	69	42	29	94	53	49	203	70	37	196	83	27	135	59	46	183	73	42	216	88	40	185	74	25	122	68	35	140	65
1912	48	251	86	43	224	108	51	231	137	48	272	168	46	254	148	44	196	118	46	236	134	44	244	84	51	272	115	50	315	137	47	241	96	55	259	106	49	267	107	52	207	166	47	251	117
1913	42	132	45	36	117	56	34	104	61	36	119	74	31	114	66	34	142	86	34	119	68	33	145	50	34	157	67	32	137	60	43	155	62	41	157	64	37	150	60	33	114	63	36	135	63
1914 .. .	55	254	87	42	175	84	36	157	92	36	109	68	40	168	97	35	140	84	38	150	85	44	239	82	42	241	102	46	272	119	52	211	84	57	287	117	48	249	100	46	226	126	43	201	93
1915	60	238	82	53	275	132	45	208	122	42	206	128	41	212	122	35	199	120	43	220	125	48	195	67	41	206	87	45	221	96	62	235	94	61	271	111	51	226	90	35	184	102	47	223	104
1916	53	187	64	48	238	114	40	169	99	40	143	89	37	146	84	33	146	88	40	168	96	46	233	80	39	182	77	32	215	94	49	179	72	47	185	76	43	199	80	34	177	98	42	184	86

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910.

Investigation recently carried out has shown that in some districts the selection of stations has not been such as to give results comparable with those now being issued. In these cases the earlier figures have been revised in order to make them as comparable with the current ones as possible. All values revised are shown in italic type. Particulars of the changes made will be published in a Report on the Seasons of the British Islands now in course of preparation. The 35 years normal in each district is shown in clarendon type.

NOTE.—Previous to 1914 the values were for periods of 13 weeks coinciding most nearly with the periods of three months July, August, September, etc. In the years 1880, 1886, 1890, 1896, 1902, 1908, 1913, the values for the fourth quarter refer to a period of 14 weeks. In 1914, 1915, and 1916 the values refer to the period July 1st to September 30th.

TABLE II.—Mean Temperature in Degrees Absolute and Deviation from Normal for 35 Years, 1881-1915.

YEARS.	0. Scot-land, N.		Eastern Districts. 1. Scot-land, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Districts, 1-5.		Western Districts. 6. Scot-land, W.		7. England, N.W. and N. Wales.		8. S. Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Districts, 6-10.		11. English Channel.		Districts 1-10 com-bined.	
	200+	a. Devn.	200+	a. Devn.	200+	a. Devn.	200+	a. Devn.	200+	a. Devn.	200+	a. Devn.	200+	a. Devn.	200+	a. Devn.	200+	a. Devn.	200+	a. Devn.	200+	a. Devn.	200+	a. Devn.	200+	a. Devn.	200+	a. Devn.	200+	a. Devn.
Lustra.* 1881-1885 ..	*85·1*	*0·0*	*85·7*	*0·0*	86·8	− 0·2	87·7	− 0·3	87·3	− 0·2	88·3	− 0·2	87·2	− 0·1	*86·1*	*− 0·1*	86·8	− 0·3	87·3	− 0·4	86·2	− 0·2	86·8	− 0·4	86·6	− 0·3	88·3	− 0·6	86·9	− 0·2
1886-1890 ..	*84·6*	*− 0·5*	85·5	− 0·2	86·5	− 0·5	87·6	− 0·4	87·1	− 0·4	88·1	− 0·4	86·9	− 0·4	85·8	− 0·4	86·7	− 0·4	87·3	− 0·4	86·2	− 0·2	87·0	− 0·2	86·6	− 0·3	88·4	− 0·5	86·8	− 0·3
1891-1895 ..	85·1	0·0	85·8	+ 0·1	86·8	− 0·2	87·8	− 0·2	87·3	− 0·2	88·4	− 0·1	87·2	− 0·1	86·2	0·0	87·2	+ 0·1	87·6	− 0·1	86·4	0·0	87·1	− 0·1	86·9	0·0	89·0	+ 0·1	87·1	0·0
1896-1900 ..	85·5	+ 0·4	86·2	+ 0·5	87·4	+ 0·4	88·6	+ 0·6	88·1	+ 0·6	89·3	+ 0·8	87·9	+ 0·6	86·6	+ 0·4	87·7	+ 0·6	88·5	+ 0·8	86·9	+ 0·5	87·9	+ 0·7	87·5	+ 0·6	89·9	+ 1·0	87·7	+ 0·6
1901-1905 ..	*85·1*	*0·0*	85·7	0·0	87·2	+ 0·2	88·3	+ 0·3	87·4	− 0·1	88·5	0·0	87·4	+ 0·1	86·2	0·0	87·2	+ 0·1	87·9	+ 0·2	86·3	− 0·1	87·3	+ 0·1	87·0	+ 0·1	89·1	+ 0·2	87·2	+ 0·1
1906-1910 ..	84·9	− 0·2	85·4	− 0·3	86·9	− 0·1	87·8	− 0·2	87·3	− 0·2	88·1	− 0·4	87·1	− 0·2	86·2	0·0	86·8	− 0·3	87·5	− 0·2	86·3	− 0·1	87·2	0·0	86·8	− 0·1	88·8	− 0·1	87·0	− 0·1
1911-1915 ..	85·3	+ 0·2	85·7	0·0	87·2	+ 0·2	88·3	+ 0·3	87·7	+ 0·2	88·5	0·0	87·5	+ 0·2	86·4	+ 0·2	87·3	+ 0·2	87·9	+ 0·2	86·4	0·0	87·4	+ 0·2	87·1	+ 0·2	89·0	+ 0·1	87·3	+ 0·2
35 years normal ..	**85·1**	—	**85·7**	—	**87·0**	—	**88·0**	—	**87·5**	—	**88·5**	—	**87·3**	—	**86·2**	—	**87·1**	—	**87·7**	—	**86·4**	—	**87·2**	—	**86·9**	—	**88·9**	—	**87·1**	—
1911	85·8	+ 0·7	86·6	+ 0·9	88·7	+ 1·7	90·4	+ 2·4	89·6	+ 2·1	90·6	+ 2·1	89·2	+ 1·9	87·3	+ 1·1	88·7	+ 1·6	89·8	+ 2·1	87·4	+ 1·0	88·5	+ 1·3	88·3	+ 1·4	91·0	+ 2·1	88·8	+ 1·7
1912	84·2	− 0·9	84·4	− 1·3	85·7	− 1·3	87·1	− 0·9	86·1	− 1·4	87·1	− 1·4	86·1	− 1·2	85·3	− 0·9	85·9	− 1·2	86·4	− 1·3	84·9	− 1·5	85·8	− 1·4	85·7	− 1·2	87·5	− 1·4	85·9	− 1·2
1913	85·3	+ 0·2	85·8	+ 0·1	86·8	− 0·2	87·6	− 0·4	87·6	+ 0·1	88·2	− 0·3	87·2	− 0·1	86·3	+ 0·1	87·2	+ 0·1	88·1	+ 0·4	86·3	− 0·1	87·5	+ 0·3	87·1	+ 0·2	88·8	− 0·1	87·2	+ 0·1
1914	85·7	+ 0·6	86·0	+ 0·3	87·7	+ 0·7	88·7	+ 0·7	87·9	+ 0·4	88·8	+ 0·3	87·8	+ 0·5	86·8	+ 0·6	87·7	+ 0·6	88·0	+ 0·3	86·9	+ 0·5	87·8	+ 0·6	87·4	+ 0·5	89·2	+ 0·3	87·7	+ 0·6
1915	85·3	+ 0·2	85·7	0·0	87·0	0·0	87·9	− 0·1	87·1	− 0·4	88·0	− 0·5	87·2	− 0·1	86·3	+ 0·1	87·0	− 0·1	87·4	− 0·3	86·4	0·0	87·3	+ 0·1	86·9	0·0	88·6	− 0·3	87·0	− 0·1
1916	85·3	+ 0·2	85·8	+ 0·1	87·1	+ 0·1	87·7	− 0·3	87·7	+ 0·2	88·3	− 0·2	87·3	0·0	87·0	+ 0·8	87·5	+ 0·4	88·2	+ 0·5	87·1	+ 0·7	88·3	+ 1·1	87·6	+ 0·7	89·2	+ 0·3	87·5	+ 0·4

The mean temperature is calculated from the observed maximum and minimum readings by applying a correction as detailed in the introduction to this and previous volumes.

TABLE III.—Bright Sunshine, in Thousand-hours, and Daily Means, with Percentages of Normal for 35 Years, 1881-1915.

YEARS.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.
Lustra.* 1881-1885 ..	*·32*	3·5	*92*	*·41*	4·5	*98*	*·47*	5·1	*97*	·50	5·5	93	·46	5·0	94	·53	5·7	92	·47	5·2	95	·44	4·8	96	·44	4·8	92	*·51*	5·5	*95*	·36	4·0	93	·43	4·7	96	·44	4·8	96	·65	7·0	99	·46	5·0	96
1886-1890 ..	*·30*	3·3	*87*	*·41*	4·5	*97*	*·46*	4·8	*93*	·51	5·5	94	·46	5·0	94	·51	5·6	90	·47	5·1	93	43	4·7	94	·43	4·7	90	*·49*	5·3	*91*	·36	3·9	91	·44	4·8	98	·43	4·7	94	·64	6·9	98	·45	4·9	94
1891-1895 ..	*·31*	3·3	87	*·41*	4·5	*97*	*·47*	5·1	*98*	·51	5·6	95	·47	5·1	96	·54	5·9	95	·48	5·2	95	·44	4·8	96	·42	4·6	88	*·49*	5·4	*93*	·37	4·0	93	·41	4·4	90	·43	4·7	94	·64	7·0	98	·46	5·0	96
1896-1900 ..	*·39*	4·2	*110*	*·47*	5·1	*110*	*·57*	5·5	*106*	·60	6·5	111	·53	5·8	109	·65	7·0	113	·55	6·0	109	·45	4·9	98	·51	5·5	106	*·59*	6·4	*110*	·41	4·5	105	·48	5·2	106	·49	5·3	106	·72	7·8	110	·52	5·7	109
1901-1905 ..	·37	4·0	105	·42	4·5	98	*·51*	5·6	*107*	·58	6·3	108	·49	5·3	100	·58	6·3	102	·52	5·6	102	·47	5·2	104	·51	5·6	108	*·53*	5·8	*100*	·39	4·3	100	·44	4·8	98	·47	5·1	102	·63	6·9	97	·50	5·4	104
1906-1910 ..	·37	4·0	105	·42	4·5	98	·47	5·1	99	·54	5·8	100	·48	5·2	98	·57	6·2	104	·50	5·4	98	·46	5·0	100	·49	5·3	102	·50	5·9	102	·41	4·5	105	·46	5·0	102	·47	5·1	102	·63	6·8	97	·48	5·2	101
1911-1915 ..	·35	3·9	103	·40	4·4	96	·46	5·1	98	·53	5·9	100	·46	5·1	96	·57	6·3	102	·49	5·4	98	·45	5·0	100	·50	5·5	106	·52	5·9	102	·41	4·6	107	·45	5·0	102	·47	5·2	104	·62	6·9	97	·48	5·3	102
35 years normal ..	**·34**	**3·8**	—	**·41**	**4·6**	—	**·47**	**5·2**	—	**·53**	**5·9**	—	**·48**	**5·3**	—	**·56**	**6·2**	—	**·50**	**5·5**	—	**·45**	**5·0**	—	**·47**	**5·2**	—	**·52**	**5·8**	—	**·39**	**4·3**	—	**·44**	**4·9**	—	**·45**	**5·0**	—	**·64**	**7·1**	—	**·47**	**5·2**	—
1911	·43	4·7	124	·53	5·8	125	·65	7·1	136	·76	8·3	141	·68	7·4	140	·85	9·2	148	·69	7·6	138	·57	6·2	124	·66	7·2	138	·73	7·9	136	·53	5·8	135	·60	6·5	133	·62	6·7	134	·83	9·0	127	·66	7·1	138
1912	·32	3·5	92	·27	2·9	63	·30	3·2	62	·40	4·4	75	·31	3·3	62	·41	4·4	71	·34	3·6	65	·36	4·0	80	·35	3·7	71	·36	3·9	67	·34	3·7	86	·35	3·8	78	·35	3·8	76	·45	4·9	70	·35	3·7	71
1913	·33	3·7	97	·36	4·0	86	·39	4·3	81	·42	4·6	77	·35	3·9	74	·44	4·8	77	·39	4·3	78	·46	5·0	100	·49	5·4	104	·49	5·4	93	·41	4·6	107	·44	4·9	100	·46	5·0	100	·56	6·2	86	·43	4·7	89
1914	·37	4·1	108	·44	4·9	107	·52	5·8	112	·56	6·2	105	·50	5·6	106	·62	6·9	111	·53	5·9	107	·47	5·2	104	·54	6·0	115	·56	6·1	105	·43	4·8	112	·43	4·8	98	·49	5·4	108	·60	6·7	94	·51	5·7	109
1915	·33	3·6	95	·40	4·4	94	·49	5·3	101	·53	5·8	97	·48	5·2	98	·56	6·1	98	·49	5·4	98	·46	5·0	100	·49	5·3	102	·55	6·0	103	·37	4·0	93	·47	5·1	104	·47	5·1	102	·71	7·7	108	·48	5·2	100
1916	·29	3·2	83	·36	4·0	87	·42	4·7	90	·42	4·7	79	·42	4·7	89	·50	5·5	88	·42	4·7	86	·41	4·6	93	·43	4·8	92	·50	5·6	97	·34	3·8	88	·41	4·6	95	·42	4·7	93	·63	7·0	98	·42	4·7	90

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910.

Meteorological Office, South Kensington, London, S.W.
25th November, 1916.

NAPIER SHAW,
Director.

(10545—19.) Wt. 79a—736. 450. 4/17. D & S. G 17/37.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT, 1916. FOURTH QUARTER (OCTOBER, NOVEMBER, DECEMBER).

Thirty-ninth Year. VOL. XXXIII. [*New Series.*] } APPENDIX I. 4th Quarter.

OCTOBER AND NOVEMBER—STORMY. WET AND MILD. DECEMBER—QUIET AND COLD. [*Price 4d.*

SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE OF THE FOURTH QUARTER FOR THE THIRTY-SIX YEARS, 1881–1916.

TABLE I.—RAINFALL—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE NORMALS FOR 35 YEARS, 1881–1915.

YEARS.	0. Scotland, N.			Eastern Districts. 1. Scotland, E.			2. England, N.E.			3. England, E.			4. Midland Counties.			5. England, S.E.			Districts 1–5.		
	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.
		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%
LUSTRA.* 1881–1885 ..	68	*411*	*96*	54	*236*	*99*	55	185	97	59	*211*	*115*	55	218	106	52	226	93	55	216	101
1886–1890 ..	71	*422*	*98*	57	226	95	53	185	97	51	*155*	*85*	50	183	89	52	224	92	53	196	92
1891–1895 ..	67	442	103	53	224	94	54	183	96	55	*196*	*107*	53	211	102	54	267	110	54	216	101
1896–1900 ..	69	488	114	57	259	108	53	206	108	49	*150*	*82*	49	191	93	47	208	85	51	203	95
1901–1905 ..	69	*401*	*94*	57	213	89	48	188	99	47	*145*	*79*	47	168	82	47	198	81	49	183	86
1906–1910 ..	70	389	91	57	249	104	54	193	101	54	201	110	56	231	112	54	267	110	55	229	107
1911–1915 ..	67	440	103	59	268	112	56	199	104	57	221	121	53	240	116	53	315	129	56	249	117
35 years normal ..	**69**	**428**	—	**56**	**239**	—	**53**	**191**	—	**53**	**183**	—	**52**	**206**	—	**51**	**244**	—	**53**	**213**	—
1911	64	399	93	64	330	138	66	221	116	62	246	134	64	257	125	62	391	161	63	290	136
1912	79	561	131	61	279	117	54	196	103	57	213	116	48	224	109	53	277	113	55	239	112
1913	71	521	122	52	170	71	47	140	73	50	155	85	50	183	89	47	218	89	50	173	81
1914	64	437	102	60	290	121	61	224	117	62	267	146	51	287	139	58	363	149	59	287	135
1915	59	284	66	56	271	113	54	215	113	53	224	122	47	249	121	47	324	133	51	257	121
1916	71	522	122	63	321	134	58	213	112	55	214	117	56	234	113	55	332	136	57	263	124

YEARS.	Western Districts. 6. Scotland, W.			7. England, N.W. and N. Wales.			8. S. Wales and England, S.W.			9. Ireland, N.			10. Ireland, S.			Districts 6–10.			11. English Channel.			Districts 1–10 combined.		
	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.
		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm	%
LUSTRA.* 1881–1885 ..	58	*419*	*108*	56	279	99	62	348	100	64	300	102	61	300	94	60	329	101	67	315	101	58	273	101
1886–1890 ..	58	389	100	59	272	96	62	345	99	64	307	105	59	320	100	60	325	99	69	302	96	57	262	97
1891–1895 ..	59	404	104	58	297	105	59	371	106	64	287	98	58	335	104	60	338	103	64	312	100	57	277	103
1896–1900 ..	61	*391*	*101*	54	282	100	57	343	98	63	300	102	58	366	114	59	335	103	61	287	92	55	269	100
1901–1905 ..	60	*373*	*96*	53	262	93	53	279	80	60	279	95	57	262	82	58	292	89	64	269	86	54	239	89
1906–1910 ..	60	371	95	61	297	105	64	363	104	66	269	92	63	300	94	64	320	98	65	335	107	60	274	102
1911–1915 ..	60	374	96	57	296	105	60	391	112	62	309	106	66	359	112	61	346	106	65	370	118	58	297	110
35 years normal ..	**59**	**389**	—	**57**	**282**	—	**60**	**349**	—	**64**	**293**	—	**61**	**320**	—	**60**	**327**	—	**65**	**313**	—	**57**	**270**	—
1911	61	442	114	63	335	119	69	445	127	61	353	121	72	434	136	65	401	123	72	442	141	64	345	128
1912	67	389	100	60	315	112	58	373	107	65	300	102	69	269	84	64	330	101	67	338	108	60	284	105
1913	67	343	88	52	244	87	60	312	89	65	300	102	67	325	102	63	305	93	63	302	97	56	239	89
1914	56	363	93	52	318	113	60	404	116	58	300	102	60	378	118	58	353	108	61	381	122	59	320	119
1915	51	332	85	48	268	95	54	423	121	60	294	100	60	388	121	55	341	104	60	387	124	53	299	111
1916	74	435	112	60	320	113	63	409	117	70	375	128	76	460	144	71	400	122	71	374	120	64	332	123

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910.

Investigation has shown that in some districts the selection of stations has not been such as to give results comparable with those now being issued. In these cases the earlier figures have been revised in order to make them as comparable with the current ones as possible. All values revised are shown in italic type. Particulars of the changes made will be published in a Report on the Seasons of the British Islands now in course of preparation. The 35 years normal in each district is shown in clarendon type.

NOTE.—Previous to 1914 the values were for periods of 13 weeks coinciding most nearly with the periods of three months October, November, December. In the years 1880, 1886, 1890, 1896, 1902, 1908, 1913, the values for the fourth quarter refer to a period of 14 weeks. In 1914, 1915, and 1916 the values refer to the period October 1st to December 31st.

TABLE II.—Mean Temperature in Degrees Absolute and Deviation from Normal for 35 Years, 1881–1915

YEARS.		0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Districts, 1–5.		Western Districts. 6. Scotland, W.		7. England, N.W. and N. Wales.		8. S. Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Districts, 6–10.		11. English Channel.		Districts 1–10 combined.	
		200+	a. Devn.	200+	a. Devn.	200+	a. Devn.	200+	a. Devn.	200+	a. Devn.	200+	a. Devn.	200+	a. Devn.	200+	a. Devn.	200+	a. Devn.	200+	a. Devn.	200+	a. Devn.	200+	a. Devn.	200+	a. Devn.	200+	a. Devn.	200+	a. Devn.
Lustra.*	1881–1885 ..	*78·3*	*– 0·5*	*78·1*	*– 0·3*	79·3	– 0·2	79·3	– 0·5	79·1	– 0·2	80·3	– 0·3	79·2	– 0·3	79·2	– 0·4	79·7	– 0·3	81·1	+ 0·2	79·6	– 0·4	80·6	– 0·1	80·1	– 0·1	82·5	– 0·4	79·7	– 0·2
	1886–1890 ..	*78·7*	*– 0·1*	78·3	– 0·1	78·9	– 0·6	78·7	– 1·1	78·6	– 0·7	79·7	– 0·9	78·9	– 0·6	79·3	– 0·3	79·4	– 0·6	80·3	– 0·6	79·8	– 0·2	80·5	– 0·2	79·9	– 0·3	82·3	– 0·6	79·4	– 0·5
	1891–1895 ..	78·5	– 0·3	78·0	– 0·4	79·1	– 0·4	79·5	– 0·3	79·1	– 0·2	80·6	0·0	79·2	– 0·3	79·4	– 0·2	79·9	– 0·1	80·9	0·0	79·6	– 0·4	80·5	– 0·2	80·1	– 0·1	82·9	0·0	79·7	– 0·2
	1896–1900 ..	79·2	+ 0·4	78·9	+ 0·5	80·1	+ 0·6	80·2	+ 0·4	79·7	+ 0·4	81·3	+ 0·7	80·1	+ 0·6	80·2	+ 0·6	80·7	+ 0·7	81·4	+ 0·5	80·4	+ 0·4	81·4	+ 0·7	80·8	+ 0·6	83·6	+ 0·7	80·4	+ 0·5
	1901–1905 ..	*78·8*	*0·0*	78·4	0·0	79·3	– 0·2	79·5	– 0·3	78·9	– 0·4	80·2	– 0·4	79·3	– 0·2	79·6	0·0	79·8	– 0·2	80·5	– 0·4	80·1	+ 0·1	80·8	+ 0·1	80·1	– 0·1	82·7	– 0·2	79·7	– 0·2
	1906–1910 ..	79·2	+ 0·4	78·9	+ 0·5	79·9	+ 0·4	80·6	+ 0·8	79·9	+ 0·6	81·1	+ 0·5	80·1	+ 0·6	79·8	+ 0·2	80·3	+ 0·3	81·2	+ 0·3	80·5	+ 0·5	81·1	+ 0·4	80·6	+ 0·4	83·3	+ 0·4	80·4	+ 0·5
	1911–1915 ..	78·9	+ 0·1	78·4	0·0	79·8	+ 0·3	80·5	+ 0·7	79·8	+ 0·5	81·1	+ 0·5	79·9	+ 0·4	79·7	+ 0·1	80·3	+ 0·3	81·2	+ 0·3	80·3	+ 0·3	80·9	+ 0·2	80·4	+ 0·2	83·1	+ 0·2	80·2	+ 0·3
35 years normal	..	**78·8**	—	**78·4**	—	**79·5**	—	**79·8**	—	**79·3**	—	**80·6**	—	**79·5**	—	**79·6**	—	**80·0**	—	**80·9**	—	**80·0**	—	**80·7**	—	**80·2**	—	**82·9**	—	**79·9**	—
1911	..	78·7	– 0·1	78·3	– 0·1	79·8	+ 0·3	80·6	+ 0·8	79·9	+ 0·6	81·2	+ 0·6	79·9	+ 0·4	79·6	0·0	80·4	+ 0·4	81·3	+ 0·4	80·2	+ 0·2	80·8	+ 0·1	80·4	+ 0·2	83·1	+ 0·2	80·2	+ 0·3
1912	..	78·8	0·0	78·6	+ 0·2	79·8	+ 0·3	80·4	+ 0·6	79·9	+ 0·6	80·8	+ 0·2	79·9	+ 0·4	79·8	+ 0·2	80·6	+ 0·6	81·2	+ 0·3	80·6	+ 0·6	81·4	+ 0·7	80·7	+ 0·5	83·1	+ 0·2	80·3	+ 0·4
1913	..	80·1	+ 1·3	79·7	+ 1·3	80·7	+ 1·2	81·4	+ 1·6	80·8	+ 1·5	82·1	+ 1·5	80·9	+ 1·4	80·8	+ 1·2	81·5	+ 1·5	82·1	+ 1·2	81·3	+ 1·3	81·6	+ 0·9	81·4	+ 1·2	83·8	+ 0·9	81·2	+ 1·3
1914	..	79·0	+ 0·2	78·6	+ 0·2	80·2	+ 0·7	80·7	+ 0·9	80·0	+ 0·7	81·2	+ 0·6	80·1	+ 0·6	79·8	+ 0·2	80·3	+ 0·3	81·1	+ 0·2	80·1	+ 0·1	80·7	0·0	80·4	+ 0·2	83·0	+ 0·1	80·3	+ 0·4
1915	..	77·7	– 1·1	77·1	– 1·3	78·6	– 0·9	79·6	– 0·2	78·6	– 0·7	80·1	– 0·5	78·8	– 0·7	78·3	– 1·3	78·8	– 1·2	80·1	– 0·8	79·4	– 0·6	80·1	– 0·6	79·3	– 0·9	82·3	– 0·6	79·1	– 0·8
1916	..	79·2	+ 0·4	78·4	0·0	79·5	0·0	79·6	– 0·2	79·1	– 0·2	80·5	– 0·1	79·5	0·0	79·7	+ 0·1	80·0	0·0	80·7	– 0·2	80·1	+ 0·1	80·7	0·0	80·2	0·0	82·6	– 0·3	79·9	0·0

The mean temperature is calculated from the observed maximum and minimum readings by applying a correction as detailed in the introduction to this and previous volumes.

TABLE III.—Bright Sunshine, in Thousand-hours, and Daily Means, with Percentages of Normal for 35 Years, 1881–1915.

YEARS.		0. Scotland, N.			Eastern Districts. 1. Scotland, E.			2. England, N.E.			3. England, E.			4. Midland Counties.			5. England, S.E.			Districts, 1–5.			Western Districts. 6. Scotland, W.			7. England, N.W. and N. Wales.			8. S. Wales and England, S.W.			9. Ireland, N.			10. Ireland, S.			Districts, 6–10.			11. English Channel.			Districts 1–10 combined.		
		Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th. hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.	Th.-hrs.	Daily Mean.	Per cent. of norm.
Lustra.*	1881–1885 ..	*·14*	1·5	*100*	*·18*	2·0	*106*	*·18*	1·9	*93*	·19	2·1	90	·18	1·9	88	·19	2·1	87	·18	2·0	96	·16	1·8	100	·15	1·6	87	*·19*	2·1	*91*	·18	2·0	96	·21	2·3	99	·18	1·9	90	·23	2·5	85	·18	2·0	95
	1886–1890 ..	*·12*	1·3	*84*	*·15*	1·6	*87*	*·19*	2·1	*100*	·21	2·3	102	·18	2·0	101	·20	2·2	92	·19	2·1	98	·15	1·7	96	·15	1·7	89	*·20*	2·2	*97*	·17	1·8	87	·20	2·2	95	·17	1·9	90	·27	2·9	103	·18	2·9	95
	1891–1895 ..	*·13*	1·4	*90*	*·18*	2·0	*108*	*·20*	2·1	*103*	·20	2·2	97	·19	2·1	106	·22	2·4	100	·20	2·2	105	·18	1·9	110	*·16*	1·8	*97*	*·22*	2·4	*104*	·21	2·2	108	·23	2·6	111	·20	2·2	104	·27	2·9	103	·20	2·2	105
	1896–1900 ..	*·14*	1·1	*99*	*·16*	1·8	*95*	*·18*	2·0	*97*	·23	2·5	110	·19	2·0	103	·24	2·6	108	·20	2·2	105	·16	1·8	100	·18	2·0	108	*·22*	2·4	*104*	·19	2·0	98	·23	2·5	110	·20	2·1	100	·26	2·8	99	·20	2·2	105
	1901–1905 ..	·14	1·5	97	·17	1·9	102	*·19*	2·1	*103*	·21	2·3	100	·17	1·8	93	·20	2·2	92	·19	2·1	101	·16	1·8	101	·18	2·0	108	*·20*	2·2	*97*	·18	2·0	94	·20	2·2	95	·18	2·0	95	·24	2·6	93	·19	2·1	99
	1906–1910 ..	·14	1·6	103	·19	2·0	111	·20	2·1	103	·21	2·3	100	·18	2·0	101	·23	2·5	104	·20	2·2	105	·16	1·7	99	·20	2·2	116	·22	2·4	107	·19	2·1	102	·20	2·2	97	·19	2·1	100	·26	2·9	102	·20	2·2	105
	1911–1915 ..	·14	1·5	100	·18	1·9	100	·19	2·0	95	·21	2·2	96	·17	1·9	95	·22	2·4	100	·19	2·1	100	·16	1·7	99	·19	2·0	108	·22	2·4	104	·18	1·9	95	·22	2·3	100	·19	2·1	100	·25	2·7	96	·19	2·1	100
35 years normal	..	**·14**	**1·5**	—	**·17**	**1·9**	—	**·19**	**2·1**	—	**·21**	**2·3**	—	**·18**	**2·0**	—	**·21**	**2·4**	—	**·19**	**2·1**	—	**·16**	**1·8**	—	**·17**	**1·9**	—	**·21**	**2·3**	—	**·19**	**2·0**	—	**·21**	**2·3**	—	**·19**	**2·1**	—	**·25**	**2·8**	—	**·19**	**2·1**	—
1911	..	·14	1·5	101	·17	1·8	99	·19	2·0	98	·20	2·2	95	·19	2·1	104	·21	2·3	96	·19	2·1	101	·17	1·8	106	·20	2·1	115	·23	2·5	111	·19	2·0	98	·21	2·3	99	·20	2·2	104	·23	2·5	88	·20	2·1	103
1912	..	·11	1·2	79	·17	1·8	99	·18	1·9	93	·20	2·2	97	·18	2·0	101	·24	2·6	108	·19	2·1	102	·14	1·5	89	·18	2·0	106	·22	2·4	104	·17	1·8	87	·22	2·4	106	·19	2·0	95	·27	2·9	103	·19	2·1	100
1913	..	·15	1·5	110	·21	2·1	121	·23	2·3	119	·27	2·7	127	·20	2·0	111	·26	2·6	108	·23	2·4	120	·18	1·8	110	·20	2·0	113	·23	2·3	110	·19	2·0	105	·21	2·1	97	·20	2·1	100	·27	2·8	107	·22	2·2	114
1914	..	·12	1·3	87	·16	1·9	100	·17	1·9	90	·18	2·0	87	·16	1·8	90	·21	2·3	96	·18	2·0	93	·14	1·6	89	·17	1·9	100	·21	2·4	104	·17	1·9	95	·22	2·5	109	·18	2·1	100	·24	2·7	96	·18	2·0	96
1915	..	·16	1·8	121	·17	1·9	102	·17	1·9	89	·18	2·0	86	·14	1·6	81	·19	2·1	87	·17	1·9	89	·16	1·8	103	·20	2·2	116	·22	2·4	104	·18	2·0	100	·22	2·4	104	·20	2·2	104	·23	2·5	89	·18	2·0	97
1916	..	·10	1·1	73	·15	1·7	88	·16	1·8	86	·18	2·0	86	·16	1·8	89	·18	2·0	84	·16	1·8	86	·13	1·4	81	·15	1·7	88	·18	2·0	85	·14	1·5	73	·15	1·7	72	·15	1·7	80	·23	2·6	93	·15	1·7	83

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910.

Meteorological Office, South Kensington, London, S.W.
30th March, 1917.

NAPIER SHAW,
Director.

(11236—19.) Wt. 79a—736. 450. 5/17. D & S. G. 17/87.

FOR OFFICIAL USE.

WEEKLY WEATHER REPORT, 1916. VALUES FOR THE WHOLE YEAR.

Thirty-ninth Year. } APPENDIX I.
VOL. XXXIII. [*New Series.*] } YEAR.

A DULL AND WET YEAR.

[*Price 4d.*

SUMMARY OF RAINFALL, MEAN TEMPERATURE AND SUNSHINE DURING THE THIRTY-SIX YEARS, 1881–1916.

TABLE I.—RAINFALL.—NUMBER OF RAIN-DAYS, AMOUNTS OF RAINFALL AND PERCENTAGES OF THE NORMALS FOR 35 YEARS, 1881–1915.

YEARS.	0. SCOTLAND, N.			Eastern Districts. 1. SCOTLAND, E.			2. ENGLAND, N.E.			3. ENGLAND, E.			4. MIDLAND COUNTIES.			5. ENGLAND, S.E.			DISTRICTS 1-5.		
	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.
		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%
(1881 1885 ..	241	*1250*	*96*	198	*816*	*107*	188	648	103	187	*660*	*109*	186	757	109	177	696	99	187	716	105
1886-1890 ..	251	*1278*	*97*	203	787	93	187	632	100	184	*574*	*95*	176	650	96	177	681	97	185	655	96
1891-1895 ..	244	1339	101	196	772	98	190	630	100	184	*610*	*101*	178	640	94	174	701	99	184	671	98
LUSTRA.* 1896-1900 ..	248	1417	107	209	810	103	183	635	101	173	*559*	*92*	172	653	96	161	643	91	180	660	97
1901-1905 ..	255	*1356*	*103*	213	759	96	177	597	95	170	*569*	*94*	175	660	97	174	699	99	182	658	97
1906-1910 ..	257	1285	97	210	820	104	192	620	98	186	617	102	189	699	103	182	726	103	192	696	102
(1911 1915 ..	237	1285	97	201	791	100	187	650	103	184	651	107	174	717	106	171	794	113	183	721	106
35 years normal ..	**248**	**1316**	—	**201**	**791**	—	**186**	**630**	—	**181**	**606**	—	**179**	**679**	—	**174**	**706**	—	**185**	**682**	—
1911	227	1303	99	200	747	95	180	599	95	175	587	97	162	559	82	159	714	101	175	640	94
1912	250	1402	106	216	853	'08	207	790	125	199	754	124	189	879	130	194	831	118	200	823	121
1913	236	1311	100	195	681	86	180	559	89	176	536	89	178	671	99	169	688	98	180	627	92
1914	240	1334	101	197	815	103	183	625	99	183	643	106	177	721	106	174	833	118	183	729	107
1915	231	1074	81	199	860	109	186	679	108	185	736	121	164	753	111	159	904	128	178	786	115
1916	255	1440	109	226	1065	135	199	718	114	194	713	118	194	752	111	187	860	122	200	822	121

YEARS.	Western Districts. 6. SCOTLAND, W.			7. ENGLAND, N.W. AND NORTH WALES.			8. SOUTH WALES AND ENGLAND, S.W.			9. IRELAND, N.			10. IRELAND, S.			DISTRICTS 6-10.			11. ENGLISH CHANNEL.			DISTRICTS 1-10 COMBINED.		
	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.	Days.	Amount.	Per cent. of normal.
		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%		mm.	%
(1881 1885 ..	216	*1285*	*106*	198	930	104	211	1034	104	236	980	101	217	1059	104	216	1057	104	222	859	102	202	886	104
1886-1890 ..	207	1163	96	197	846	94	200	950	95	223	963	99	204	983	97	206	980	96	217	813	97	196	818	96
1891-1895 ..	206	1156	95	196	892	91	191	975	98	225	919	95	200	993	98	204	988	97	200	838	100	194	831	98
LUSTRA.* 1896-1900 ..	225	*1245*	*103*	198	917	102	194	996	100	235	1006	104	206	1092	107	212	1049	103	204	800	95	196	856	101
1901-1905 ..	218	*1278*	*105*	202	858	94	194	950	95	247	996	102	215	991	97	215	1008	99	219	836	102	199	833	98
1906-1910 ..	217	1229	102	213	953	106	208	1006	101	244	988	102	240	963	94	224	1029	101	201	800	95	208	864	102
(1911 1915 ..	208	1107	92	193	904	101	198	1083	108	222	942	97	229	1081	106	210	1023	100	200	936	111	197	872	102
35 years normal ..	**214**	**1209**	—	**200**	**897**	—	**199**	**999**	—	**233**	**971**	—	**216**	**1023**	—	**212**	**1019**	—	**209**	**840**	—	**199**	**851**	—
1911	201	1125	93	182	871	97	179	935	94	195	851	88	212	1003	98	194	958	94	186	859	102	185	880	94
1912	223	1201	98	214	1006	112	218	1234	123	240	1008	104	249	1077	106	229	1102	108	226	1052	125	214	963	114
1913	217	1095	89	203	876	98	204	1008	101	235	1001	103	237	1125	110	219	1021	100	203	818	97	200	823	97
1914	201	1110	90	192	919	103	200	1148	115	221	960	99	228	1125	110	210	1052	103	199	1003	119	197	892	105
1915	191	1002	82	174	846	94	189	1102	111	221	892	92	221	1074	105	199	983	96	188	949	113	189	885	106
1916	236	1208	100	210	940	105	204	1090	109	248	1038	107	251	1148	113	230	1085	106	212	940	112	215	954	112

* The values for each year from 1878 (1881 for Sunshine) to 1910 are published in Appendix I. to the Weekly Weather Report for 1910.

Investigation having shown that in some districts the effects of changes in the lists of stations were considerable, the earlier figures were revised in 1907 to make them comparable with the current ones. All values revised are shown in italic type.

TABLE II.—Mean Temperature in Degrees Absolute and Deviation from Normal for 35 Years, 1881–1915.

Years	0. Scotland, N.	Eastern Districts. 1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.E.	Districts, 1–5.	Western Districts. 6. Scotland, W.	7. England, N.W. and North Wales	8. South Wales and England, S.W.	9. Ireland, N.	10. Ireland, S.	Districts, 6–10.	11. English Channel.	Districts 1–10 Combined.
	200+ a. Devn.	200+ a. Devn.	200+ a. Devn.	200+ a. Devn.	200+ a. Devn.	200+ a. Devn.	200+ a. Devn.	200+ a. Devn.	200+ a. Devn.	200+ a. Devn.	200+ a. Devn.	200+ a. Devn.	200+ a. Devn.	200+ a. Devn.	200+ a. Devn.
Lustra.* 1881–1885 ..	*80·4* *– 0·1*	*80·6* *– 0·1*	81·5 – 0·1	82·1 – 0·1	81·9 0·0	82·8 0·0	81·8 0·0	*81·4* *– 0·2*	81·9 – 0·2	82·7 0·0	81·8 – 0·1	82·6 – 0·2	82·1 – 0·1	83·8 – 0·3	81·9 – 0·1
1886–1890 ..	*80·3* *– 0·2*	80·6 – 0·1	81·1 – 0·5	81·4 – 0·8	81·4 – 0·5	82·2 – 0·6	81·3 – 0·5	81·3 – 0·3	81·6 – 0·5	82·3 – 0·4	81·7 – 0·2	82·5 – 0·3	81·9 – 0·3	83·6 – 0·5	81·6 – 0·4
1891–1895 ..	80·4 – 0·1	80·4 – 0·3	81·3 – 0·3	81·8 – 0·4	81·7 – 0·2	82·7 – 0·1	81·6 – 0·2	81·4 – 0·2	82·0 – 0·1	82·6 – 0·1	81·8 – 0·1	82·6 – 0·2	82·1 – 0·1	84·1 0·0	81·9 – 0·1
1896–1900 ..	80·8 + 0·3	81·0 + 0·3	81·9 + 0·3	82·5 + 0·3	82·3 + 0·4	83·4 + 0·6	82·2 + 0·4	81·9 + 0·3	82·6 + 0·5	83·3 + 0·6	82·3 + 0·4	83·2 + 0·4	82·7 + 0·5	84·8 + 0·7	82·4 + 0·4
1901–1905 ..	*80·6* *+ 0·1*	80·6 – 0·1	81·7 + 0·1	82·3 + 0·1	81·8 – 0·1	82·7 – 0·1	81·8 0·0	81·5 – 0·1	82·0 – 0·1	82·7 0·0	81·9 0·0	82·8 0·0	82·2 0·0	84·1 0·0	82·0 0·0
1906–1910 ..	80·5 0·0	80·6 – 0·1	81·7 + 0·1	82·3 + 0·1	81·9 0·0	82·6 – 0·2	81·8 0·0	81·6 0·0	81·9 – 0·2	82·5 – 0·2	81·9 0·0	82·9 + 0·1	82·1 – 0·1	84·1 0·0	82·0 0·0
1911–1915 ..	80·8 + 0·3	80·8 + 0·1	82·0 + 0·4	82·8 + 0·6	82·4 + 0·5	83·2 + 0·4	82·2 + 0·4	81·8 + 0·2	82·4 + 0·3	83·0 + 0·3	82·1 + 0·2	82·9 + 0·1	82·4 + 0·2	84·4 + 0·3	82·3 + 0·3
35 years normal ..	**80·5** —	**80·7** —	**81·6** —	**82·2** —	**81·9** —	**82·8** —	**81·8** —	**81·6** —	**82·1** —	**82·7** —	**81·9** —	**82·8** —	**82·2** —	**84·1** —	**82·0** —
1911	81·1 + 0·6	81·2 + 0·5	82·4 + 0·8	83·2 + 1·0	82·8 + 0·9	83·6 + 0·8	82·4 + 0·6	82·1 + 0·5	82·9 + 0·8	83·4 + 0·7	82·4 + 0·5	83·2 + 0·4	82·8 + 0·6	84·7 + 0·6	83·6 + 0·6
1912	80·6 + 0·1	80·6 – 0·1	81·7 + 0·1	82·7 + 0·5	82·1 + 0·2	83·0 + 0·2	82·0 + 0·2	81·6 0·0	82·1 0·0	82·8 + 0·1	81·9 0·0	82·8 0·0	82·2 0·0	84·3 + 0·2	82·1 + 0·1
1913	81·1 + 0·6	81·0 + 0·3	82·1 + 0·5	82·9 + 0·7	82·4 + 0·5	83·4 + 0·6	82·3 + 0·5	81·9 + 0·3	82·6 + 0·5	83·2 + 0·5	82·1 + 0·2	82·8 0·0	82·5 + 0·3	84·4 + 0·3	82·4 + 0·4
1914	81·1 + 0·6	81·1 + 0·4	82·6 + 1·0	83·1 + 0·9	82·7 + 0·8	83·4 + 0·6	82·6 + 0·8	82·1 + 0·5	82·7 + 0·6	83·2 + 0·5	82·3 + 0·4	83·1 + 0·3	82·7 + 0·5	84·5 + 0·4	82·6 + 0·6
1915	80·3 – 0·2	80·1 – 0·6	81·4 – 0·2	82·2 0·0	81·8 – 0·1	82·6 – 0·2	81·6 – 0·2	81·1 – 0·5	81·7 – 0·4	82·4 – 0·3	81·6 – 0·3	82·5 – 0·3	81·9 – 0·3	83·9 – 0·2	81·8 – 0·2
1916	80·7 + 0·2	80·4 – 0·3	81·8 + 0·2	82·3 + 0·1	81·9 0·0	82·8 0·0	81·8 0·0	81·7 + 0·1	82·2 + 0·1	82·8 + 0·1	81·9 0·0	82·8 0·0	82·3 + 0·1	84·1 0·0	82·1 + 0·1

The mean temperature is calculated from the observed maximum and minimum readings by applying a correction as detailed in the Guide to the Tables of the Weekly Weather Report.

TABLE III.—Bright Sunshine, in Thousand-Hours, and Daily Means, with Percentages of Normal for 35 Years, 1881–1915.

Years	0. Scotland, N.			1. Scotland, E.			2. England, N.E.			3. England, E.			4. Midland Counties.			5. England, S.E.			Districts, 1–5.		
	Th.-hrs.	Daily Mean.	Per cent. of norl.	Th.-hrs.	Daily Mean.	Per cent. of norl.	Th.-hrs.	Daily Mean.	Per cent. of norl.	Th.-hrs.	Daily Mean.	Per cent. of norl.	Th.-hrs.	Daily Mean.	Per cent. of norl.	Th.-hrs.	Daily Mean.	Per cent. of norl.	Th.-hrs.	Daily Mean.	Per cent. of norl.
Lustra.* 1881–1885 ..	*1·08*	3·0	*97*	*1·33*	3·6	*100*	*1·41*	3·8	*97*	1·54	4·2	*97*	1·39	3·8	*99*	*1·54*	4·2	*95*	1·44	3·9	*97*
1886–1890 ..	*0·99*	2·7	*89*	*1·28*	3·5	*97*	*1·35*	3·7	*95*	1·48	4·1	94	1·32	3·6	94	1·45	4·0	90	1·38	3·8	93
1891–1895 ..	*1·15*	3·1	*103*	*1·40*	3·9	*106*	*1·52*	4·2	*108*	1·59	4·4	101	1·49	4·1	106	1·70	4·6	105	1·54	4·2	104
1896–1900 ..	*1·17*	3·2	*106*	*1·35*	3·7	*102*	*1·44*	3·9	*100*	1·64	4·5	104	1·46	4·0	104	1·71	4·7	106	1·52	4·2	103
1901–1905 ..	1·15	3·1	103	1·28	3·5	96	*1·49*	4·1	*105*	1·63	4·4	103	1·37	3·7	97	*1·60*	4·4	*99*	1·47	4·0	100
1906–1910 ..	1·14	3·1	103	1·34	3·7	101	1·45	4·0	103	1·61	4·4	102	1·43	3·9	101	1·70	4·7	105	1·51	4·1	102
1911–1915 ..	1·11	3·0	100	1·29	3·5	97	1·40	3·8	97	1·57	4·3	100	1·36	3·7	97	1·65	4·6	104	1·45	4·0	100
35 years normal ..	**1·11**	**3·0**	—	**1·32**	**3·6**	—	**1·44**	**3·9**	—	**1·58**	**4·3**	—	**1·40**	**3·8**	—	**1·62**	**4·4**	—	**1·47**	**4·0**	—
1911	1·26	3·4	113	1·48	4·0	111	1·60	4·4	113	1·89	4·9	114	1·59	4·3	113	1·93	5·3	119	1·68	4·6	114
1912	1·01	2·8	91	1·02	2·9	77	1·12	3·1	80	1·38	3·8	87	1·13	3·2	80	1·44	4·2	89	1·22	3·4	82
1913	1·02	2·8	91	1·22	3·3	91	1·29	3·5	90	1·43	3·9	91	1·19	3·2	85	1·47	4·0	91	1·32	3·6	91
1914	1·08	3·0	100	1·38	3·8	106	1·52	4·2	108	1·68	4·6	107	1·56	4·1	108	1·80	4·9	111	1·57	4·3	107
1915	1·16	3·2	105	1·34	3·7	101	1·48	4·0	103	1·58	4·3	98	1·42	3·9	100	1·59	4·4	98	1·48	4·0	100
1916	0·91	2·5	84	1·11	3·1	99	1·21	3·4	86	1·29	3·6	83	1·19	3·3	86	1·45	4·0	89	1·24	3·5	86

Years	6. Scotland, W.			7. England, N.W. and North Wales			8. South Wales and England, S.W.			9. Ireland, N.			10. Ireland, S.			Districts, 6–10.			11. English Channel.			Districts 1–10 Combined.		
	Th.-hrs.	Daily Mean.	Per cent. of norl.	Th.-hrs.	Daily Mean.	Per cent. of norl.	Th.-hrs.	Daily Mean.	Per cent. of norl.	Th.-hrs.	Daily Mean.	Per cent. of norl.	Th.-hrs.	Daily Mean.	Per cent. of norl.	Th.-hrs.	Daily Mean.	Per cent. of norl.	Th.-hrs.	Daily Mean.	Per cent. of norl.	Th.-hrs.	Daily Mean.	Per cent. of norl.
Lustra.* 1881–1885 ..	1·33	3·6	98	1·32	3·6	92	*1·51*	4·1	*96*	1·26	3·5	98	1·45	4·0	101	1·37	3·8	98	1·89	5·2	102	1·41	3·8	97
1886–1890 ..	1·32	3·6	97	1·29	3·5	90	*1·48*	4·0	*94*	1·20	3·3	94	1·43	3·9	99	1·34	3·7	95	1·84	5·0	98	1·36	3·7	94
1891–1895 ..	1·42	3·9	104	*1·38*	3·8	*97*	*1·64*	4·5	*104*	1·33	3·6	104	1·47	4·0	102	1·45	4·0	103	2·02	5·5	108	1·50	4·1	103
1896–1900 ..	1·34	3·7	99	1·48	4·0	103	*1·65*	4·5	*105*	1·31	3·6	102	1·49	4·1	103	1·45	4·0	103	1·94	5·3	104	1·49	4·0	103
1901–1905 ..	1·38	3·8	101	1·49	4·0	103	*1·52*	4·2	*97*	1·29	3·5	101	1·40	3·8	97	1·42	3·9	101	1·80	4·9	96	1·45	4·0	100
1906–1910 ..	1·36	3·7	100	1·47	4·0	103	1·62	4·4	103	1·29	3·5	101	1·42	3·9	99	1·43	3·9	101	1·87	5·1	100	1·47	3·9	101
1911–1915 ..	1·34	3·7	100	1·45	4·0	103	1·54	4·2	98	1·28	3·5	100	1·42	3·9	98	1·41	3·9	100	1·76	4·9	96	1·43	3·9	98
35 years normal ..	**1·36**	**3·7**	—	**1·41**	**3·9**	—	**1·57**	**4·3**	—	**1·28**	**3·5**	—	**1·44**	**4·0**	—	**1·41**	**3·9**	—	**1·87**	**5·1**	—	**1·44**	**4·0**	—
1911	1·54	4·2	113	1·68	4·6	118	1·84	5·0	117	1·52	4·2	119	1·63	4·4	113	1·64	4·5	116	2·03	5·5	108	1·66	4·5	115
1912	1·15	3·2	85	1·21	3·3	85	1·26	3·5	80	1·11	3·1	87	1·26	3·5	88	1·20	3·3	85	1·61	4·5	88	1·21	3·3	87
1913	1·22	3·3	89	1·32	3·7	95	1·42	3·9	90	1·20	3·3	94	1·31	3·6	91	1·29	3·5	92	1·63	4·5	88	1·31	3·6	92
1914	1·31	3·7	100	1·49	4·1	105	1·62	4·5	105	1·27	3·5	100	1·45	4·0	100	1·43	4·0	103	1·78	4·9	96	1·50	4·2	105
1915	1·47	4·0	109	1·57	4·3	110	1·56	4·3	100	1·31	3·6	103	1·46	4·0	102	1·48	4·1	105	1·77	4·9	96	1·48	4·0	102
1916	1·25	3·5	94	1·23	3·5	90	1·43	4·1	96	1·14	3·1	89	1·30	3·6	92	1·28	3·6	92	1·74	4·8	94	1·26	3·6	89

Meteorological Office, South Kensington, London, S.W. 7.
24th May, 1917.

NAPIER SHAW,
Director.

WEEKLY WEATHER REPORT, 1916. APPENDIX II.

[*Price* 1*s*.

TABLE I.—SHOWING THE WEEKLY AND PROGRESSIVE NUMBERS OF **RAIN-DAYS** IN EACH DISTRICT DURING THE YEAR 1916.

1916.		0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts		11. English Channel.		Means for Districts 1-10 combined.	
No. of Week.	Limiting Dates of each Week.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.
	NUMBERS OF RAIN-DAYS—1916.																												
	1916.																												
1	Jan. 2-8 -	7	7	5	5	3	3	5	5	5	5	5	5	5	5	6	6	6	6	6	6	7	7	7	7	6	6	5	5	6	6
2	9-15 -	7	14	4	9	2	5	3	8	3	8	3	8	3	8	6	12	5	11	3	9	5	12	4	11	5	11	3	8	4	10
3	16-22 -	6	20	5	14	4	9	4	12	4	12	6	14	4	12	7	19	5	16	6	15	6	18	6	17	6	17	7	15	5	15
4	Jan. 23-29 -	6	26	4	18	1	10	1	13	2	14	2	16	2	14	7	26	4	20	3	18	6	24	6	23	5	22	4	19	3	18
5	Jan. 30-Feb. 5	5	31	3	21	4	14	4	17	3	17	4	20	4	18	5	31	5	25	4	22	5	29	6	29	5	27	4	23	4	22
6	Feb. 6-12 -	7	38	5	26	4	18	4	21	4	21	5	25	4	22	6	37	6	31	6	28	7	36	7	36	6	33	7	30	5	27
7	13-19 -	6	44	6	32	5	23	6	27	6	27	6	31	6	28	6	43	6	37	7	35	6	42	7	43	6	39	7	37	6	33
8	Feb. 20-26 -	3	47	4	36	5	28	6	33	5	32	5	36	5	33	2	45	2	39	6	41	2	44	5	48	3	42	6	43	4	37
	Winter Totals	77		64		56		60		60		63		60		74		67		71		74		76		71		73		66	
9	Feb. 27-Mar. 4	6	53	6	42	7	35	6	39	5	37	5	41	6	39	4	49	5	44	4	45	5	49	5	53	5	47	6	49	5	42
10	Mar. 5-11 -	4	57	6	48	7	42	7	46	6	43	5	46	6	45	2	51	4	48	4	49	2	51	4	57	3	50	5	54	5	47
11	12-18 -	3	60	5	53	6	48	5	51	5	48	5	51	5	50	3	54	4	52	5	54	5	56	6	63	4	54	6	60	5	52
12	19-25 -	6	66	6	59	6	54	5	56	5	53	6	57	6	56	5	59	5	57	5	59	5	61	6	69	5	59	5	65	5	57
13	Mar. 26-Apr. 1	5	71	2	61	2	56	3	59	3	56	3	60	3	59	3	62	2	59	4	63	3	64	3	72	3	62	4	69	3	60
14	April 2-8 -	4	75	2	63	3	59	3	62	1	57	1	61	2	61	3	65	2	61	1	64	4	68	4	76	3	65	2	71	2	62
15	9-15 -	7	82	4	67	3	62	4	66	5	62	5	66	4	65	6	71	6	67	5	69	6	74	6	82	6	71	4	75	5	67
16	16-22 -	6	88	7	74	6	68	5	71	6	68	6	72	6	71	6	77	6	73	5	74	7	81	6	88	6	77	4	79	6	73
17	April 23-29 -	4	92	3	77	2	70	1	72	2	70	1	73	2	73	3	80	1	74	2	76	4	85	4	92	3	80	1	80	3	76
18	April 30-May 6	5	97	5	82	4	74	3	75	4	74	5	78	4	77	4	84	4	78	5	81	3	88	3	95	4	84	4	84	4	80
19	May 7-13 -	4	101	4	86	5	79	6	81	5	79	5	83	5	82	6	90	6	84	6	87	7	95	6	101	6	90	7	91	6	86
20	14-20 -	4	105	4	90	2	81	1	82	3	82	1	84	2	84	4	94	2	86	2	89	3	98	4	105	3	93	2	93	3	89
21	21-27 -	4	109	5	95	2	83	1	83	2	84	2	86	2	86	5	99	4	90	4	93	7	105	5	110	5	98	2	95	4	93
22	May 28-June 3	6	115	6	101	4	87	2	85	2	86	1	87	3	89	5	104	4	94	2	95	6	111	6	116	5	103	2	97	4	97
	Spring Totals	68		65		59		52		54		51		56		59		55		54		67		68		61		54		59	
23	June 4-10 -	6	121	7	108	5	92	6	91	5	91	6	93	6	95	6	110	5	99	5	100	6	117	6	122	6	109	5	102	6	103
24	11-17 -	1	122	1	109	3	95	4	95	2	93	3	96	3	98	0	110	1	100	1	101	0	117	1	123	1	110	1	103	2	105
25	18-24 -	4	126	3	112	3	98	4	99	2	95	3	99	3	101	3	113	2	102	3	104	3	120	3	126	3	113	3	106	3	108
26	June 25-July 1	5	131	5	117	4	102	4	103	5	100	4	103	4	105	5	118	5	107	6	110	5	125	6	132	5	118	4	110	5	113
27	July 2-8 -	5	136	6	123	4	106	4	107	4	104	3	106	4	109	5	123	4	111	3	113	4	129	6	138	4	122	3	113	4	117
28	9-15 -	4	140	5	128	5	111	4	111	4	108	3	109	4	113	5	128	4	115	3	116	5	134	5	143	4	126	3	116	4	121
29	16-22 -	4	144	4	132	4	115	3	114	3	111	2	111	3	116	3	131	2	117	1	117	3	137	1	144	2	128	2	118	3	124
30	July 23-29 -	3	147	1	133	1	116	2	116	1	112	0	111	1	117	1	132	1	118	1	118	2	139	2	146	1	129	0	118	1	125
31	July 30-Aug. 5	4	151	3	136	1	117	0	116	0	112	0	111	1	118	2	134	1	119	1	119	3	142	2	148	2	131	0	118	1	126
32	Aug. 6-12 -	2	153	1	137	1	118	1	117	1	113	1	112	1	119	2	136	1	120	1	120	2	144	2	150	2	133	1	119	1	127
33	13-19 -	6	159	6	143	6	124	6	123	6	119	5	117	6	125	6	142	6	126	4	124	6	150	6	156	6	139	3	122	6	133
34	20-26 -	3	162	4	147	4	128	4	127	4	123	3	120	4	129	3	145	4	130	4	128	6	156	5	161	4	143	4	126	4	137
35	Aug. 27-Sept. 2	4	166	3	150	3	131	5	132	4	127	6	126	4	133	3	148	3	133	6	134	4	160	4	165	4	147	5	131	4	141
	Summer Totals	51		49		44		47		41		39		44		44		39		39		49		49		44		34		44	
36	Sept. 3-9 -	4	170	2	152	3	134	3	135	2	129	2	128	2	135	3	151	3	136	2	136	4	164	4	169	3	150	2	133	3	144
37	10-16 -	6	176	4	156	2	136	2	137	2	131	1	129	2	137	5	156	4	140	1	137	5	169	3	172	4	154	1	134	3	147
38	17-23 -	5	181	4	160	3	139	4	141	3	134	3	132	4	141	4	160	3	143	2	139	3	172	4	176	3	157	2	136	4	151
39	Sept. 24-30 -	2	183	3	163	1	140	2	143	2	136	4	136	3	144	2	162	2	145	4	143	2	174	5	181	3	160	5	141	3	154
40	Oct. 1-7 -	5	188	4	167	6	146	5	148	6	142	6	142	5	149	6	168	6	151	7	150	7	181	7	188	7	167	7	148	6	160
41	8-14 -	7	195	6	173	4	150	3	151	4	146	3	145	4	153	7	175	5	156	4	154	7	188	5	193	6	173	3	151	5	165
42	15-21 -	4	199	3	176	4	154	4	155	4	150	3	148	4	157	4	179	4	160	4	158	6	194	6	199	5	178	4	155	4	169
43	Oct. 22-28 -	5	204	5	181	6	160	5	160	6	156	6	154	6	163	7	186	7	167	7	165	7	201	7	206	7	185	7	162	6	175
44	Oct. 29-Nov. 4	6	210	5	186	6	166	7	167	7	163	7	161	6	169	7	193	7	174	7	172	7	208	7	213	7	192	7	169	7	182
45	Nov. 5-11 -	6	216	6	192	4	170	4	171	4	167	3	164	4	173	7	200	6	180	6	178	6	214	5	218	6	198	7	176	5	187
46	12-18 -	3	219	3	195	3	173	1	172	2	169	2	166	2	175	2	202	1	181	3	181	3	217	5	223	3	201	4	180	2	189
47	19-25 -	6	225	5	200	5	178	5	177	5	174	6	172	5	180	7	209	5	186	6	187	6	223	6	229	6	207	6	186	6	195
48	Nov. 26-Dec. 2	6	231	5	205	2	180	2	179	1	175	1	173	2	182	6	215	4	190	1	188	6	229	6	235	5	212	2	188	3	198
	Autumn Totals	65		55		49		47		48		47		49		67		57		54		69		70		65		57		57	
49	Dec. 3-9 -	5	236	4	209	4	184	4	183	3	178	3	176	4	186	5	220	5	195	4	192	6	235	6	241	5	217	4	192	4	202
50	10-16 -	5	241	6	215	6	190	4	187	3	181	4	180	5	191	4	224	4	199	3	195	4	239	5	246	4	221	7	199	4	206
51	17-23 -	5	246	4	219	5	195	5	192	6	187	6	186	5	196	7	231	5	204	6	201	5	244	6	252	6	227	6	205	5	211
52	Dec. 24-30 -	7	253	5	224	4	199	5	197	4	191	4	190	4	200	6	237	5	209	5	206	6	250	5	257	5	232	6	211	5	216

NOTE.—The "day" for rainfall is from 9 h. on the civil day named till 9 h. the following morning.
A rain day is a day on which the precipitation during this period amounts to 0·2 mm. or more.

(11258—19.) Wt. 79a—736. 450. 5/17. D & S. G. 17/ 38.

TABLE II.—SHOWING THE WEEKLY AND PROGRESSIVE AMOUNTS OF RAINFALL IN EACH DISTRICT DURING THE YEAR 1916.

1916.		0. Scot-land, N.		Eastern Districts. 1. Scot-land, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		Western Districts. 6. Scot-land, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.		11. English Channel.		Means for Districts 1-10 combined.	
No. of Week.	Limiting Dates of each Week.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 6, 1916.	For the Week.	From Jan. 2, 1916.
	RAINFALL IN MILLIMETRES—1916.																														
	1916.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.
1	Jan. 2-8 -	73	73	25	25	5	5	21	21	15	15	15	15	16	16	35	35	23	23	30	30	20	20	15	15	24	24	12	12	20	20
2	9-15 -	51	124	7	32	4	9	4	25	3	18	3	18	4	20	15	50	8	31	5	35	6	26	4	19	8	32	5	17	6	26
3	16-22 -	49	173	28	60	6	15	12	37	8	26	13	31	13	33	39	89	24	55	22	57	23	49	24	43	26	58	13	30	20	46
4	Jan. 23-29 -	72	245	18	78	3	18	1	38	2	28	2	33	5	38	29	118	11	66	6	63	24	73	14	57	17	75	3	33	11	57
5	Jan. 30-Feb. 5	43	288	14	92	10	28	9	47	18	46	21	54	14	52	31	149	25	91	39	102	24	97	36	93	31	106	22	55	22	79
6	Feb. 6-12 -	59	347	26	118	15	43	13	60	18	64	18	72	18	70	29	178	30	121	36	138	22	119	32	125	30	136	43	98	24	103
7	13-19 -	40	387	33	151	16	59	27	87	29	93	30	102	27	97	46	224	37	158	47	185	42	161	49	174	44	180	34	132	36	139
8	Feb. 20-26 -	6	393	10	161	19	78	27	114	19	112	29	131	21	118	1	225	5	163	21	206	3	164	8	182	8	188	44	176	14	153
	Winter Totals	565		309		217		227		255		328		265		422		340		451		322		359		379		398		322	
9	Feb. 27-Mar. 4	8	401	26	187	27	105	19	133	26	138	30	161	25	143	7	232	19	182	20	226	11	175	11	193	14	202	39	215	20	173
10	Mar. 5-11 -	5	406	15	202	24	129	20	153	15	153	16	177	18	161	2	234	4	186	9	235	2	177	4	197	4	206	13	228	11	184
11	12-18 -	5	411	24	226	26	155	12	165	29	182	15	192	21	182	10	244	14	200	15	250	9	186	16	213	13	219	32	260	17	201
12	19-25 -	22	433	18	244	14	169	18	183	28	210	29	221	21	203	18	262	22	222	29	279	20	206	20	233	22	241	13	273	21	222
13	Mar. 26-Apr. 1	33	466	7	251	9	178	29	212	23	233	26	247	19	222	6	268	3	225	29	308	7	213	5	238	10	251	28	301	15	237
14	April 2-8 -	11	477	3	254	5	183	9	221	1	234	4	251	4	226	2	270	3	228	1	309	7	220	10	248	5	256	2	303	4	241
15	9-15 -	31	508	9	263	5	188	12	233	9	243	8	259	9	235	36	306	24	252	15	324	30	250	20	268	25	281	5	308	17	258
16	16-22 -	33	541	43	306	24	212	17	250	19	262	16	275	24	259	35	341	34	286	20	344	30	280	17	285	27	308	10	318	26	284
17	April 23-29 -	15	556	12	318	1	213	1	251	2	264	1	276	3	262	22	363	5	291	6	350	28	308	37	322	20	328	1	319	11	295
18	April 30-May 6	30	586	38	356	29	242	8	259	24	288	17	293	23	285	34	397	29	320	23	373	43	351	44	366	35	363	14	333	29	324
19	May 7-13 -	14	600	21	377	28	270	29	288	22	310	25	318	25	310	29	426	22	342	24	397	27	378	19	385	24	387	22	355	25	349
20	14-20 -	16	616	11	388	3	273	3	291	3	313	2	320	4	314	19	445	7	349	6	403	7	385	4	389	9	396	2	357	6	355
21	21-27 -	14	630	11	399	4	277	6	297	10	323	4	324	7	321	20	465	21	370	19	422	33	418	25	414	23	419	7	364	15	370
22	May 28-June 3	36	666	25	424	8	285	2	299	4	327	1	325	8	329	33	498	16	386	7	429	34	452	18	432	21	440	1	365	15	38
	Spring Totals	273		263		207		185		215		194		211		273		223		223		288		250		252		189		232	
23	June 4-10 -	32	698	34	458	20	305	24	323	19	346	27	352	25	354	11	509	27	413	24	453	13	465	15	447	18	458	12	377	21	406
24	11-17 -	0	698	0	458	8	313	19	342	4	350	8	360	8	362	0	509	0	413	2	455	0	465	0	447	0	458	1	378	4	410
25	18-24 -	18	716	32	490	11	324	8	350	7	357	5	365	13	375	14	523	8	421	10	465	12	477	23	470	13	471	6	384	13	423
26	June 25-July 1	15	731	21	511	13	337	11	361	16	373	16	381	15	390	23	546	23	444	29	494	21	498	29	499	25	496	10	394	20	443
27	July 2-8 -	34	765	71	582	19	356	13	374	22	395	14	395	28	418	37	583	20	464	25	519	14	512	25	524	24	520	15	409	26	469
28	9-15 -	10	775	16	598	23	379	9	383	9	404	7	402	13	431	30	613	16	480	9	528	27	539	13	537	19	539	4	413	16	485
29	16-22 -	5	780	9	607	11	390	9	392	9	413	6	408	9	440	5	618	3	483	2	530	3	542	1	538	3	542	1	414	6	491
30	July 23-29 -	15	795	5	612	1	391	1	393	2	415	0	408	2	442	2	620	1	484	1	531	4	546	1	539	2	544	0	414	2	493
31	July 30-Aug. 5	15	810	7	619	2	393	0	393	0	415	0	408	2	444	5	625	1	485	1	532	5	551	2	541	3	547	0	414	3	496
32	Aug. 6-12 -	3	813	1	620	1	394	2	395	1	416	2	410	2	446	5	630	1	486	2	534	9	560	12	553	6	553	2	416	4	500
33	13-19 -	17	830	27	647	35	429	29	424	31	447	21	431	29	475	35	665	41	527	32	566	37	597	26	579	34	587	11	427	31	531
34	20-26 -	16	846	46	693	23	452	8	432	13	460	14	445	21	496	47	712	16	543	29	595	22	619	39	618	30	617	18	445	26	557
35	Aug. 27-Sept. 2	14	860	9	702	12	464	43	475	27	487	45	490	27	523	9	721	19	562	57	652	10	629	12	630	21	638	57	502	24	581
	Summer Totals	191		278		179		176		160		165		194		223		176		223		177		198		198		137		196	
36	Sept. 3-9 -	8	868	13	715	25	489	11	486	12	499	8	498	14	537	10	731	23	585	5	657	5	634	7	637	10	648	5	507	12	593
37	10-16 -	23	891	7	722	3	492	3	489	2	501	1	499	3	540	13	744	7	592	1	658	10	644	7	644	8	656	2	509	5	598
38	17-23 -	24	915	15	737	10	502	15	504	11	512	14	513	13	553	20	764	22	614	13	671	16	660	12	656	17	673	13	522	15	613
39	Sept. 24-30 -	1	916	4	741	1	503	2	506	4	516	15	528	5	558	5	769	4	618	36	707	13	673	23	679	16	689	49	571	11	624
40	Oct. 1-7 -	28	944	36	777	23	526	14	520	31	547	33	561	27	585	63	832	53	671	60	767	64	737	65	744	61	750	29	600	44	668
41	8-14 -	165	1109	50	827	11	537	5	525	8	555	4	565	16	601	69	901	39	710	12	779	34	771	19	763	35	785	2	602	25	693
42	15-21 -	18	1127	11	838	7	544	15	540	11	566	21	586	13	614	17	918	13	723	16	795	24	795	39	802	22	807	15	617	18	711
43	Oct. 22-28 -	17	1144	21	859	14	558	16	556	27	593	41	627	24	638	18	936	29	752	62	857	29	824	58	860	39	846	59	676	32	743
44	Oct. 29-Nov. 4	51	1195	36	895	21	579	35	591	38	631	58	685	38	676	46	982	43	795	53	910	42	866	59	919	49	895	40	716	43	786
45	Nov. -11 -	50	1245	18	913	14	593	22	613	20	651	40	725	23	699	37	1019	26	821	48	958	27	893	24	943	32	927	40	756	27	813
46	12-18 -	6	1251	13	926	23	616	14	627	18	669	17	742	17	716	7	1026	5	826	24	982	20	913	58	1001	23	950	30	786	20	833
47	19-25 -	47	1298	36	962	18	634	19	646	17	686	22	764	23	739	35	1061	28	854	24	1006	32	945	32	1033	30	980	34	820	27	860
48	Nov. 26-Dec. 2	36	1334	15	977	4	638	3	649	1	687	1	765	5	744	22	1083	11	865	2	1008	16	961	13	1046	13	993	4	824	9	869
	Autumn Totals	474		275		174		174		200		275		221		362		303		356		332		416		355		322		288	
49	Dec. 3-9 -	22	1356	24	1001	18	656	12	661	11	698	11	776	15	759	20	1103	16	881	18	1026	31	992	25	1071	22	1015	18	842	18	887
50	10-16 -	17	1373	29	1030	26	682	13	674	4	702	15	791	17	776	12	1115	5	886	8	1034	11	1003	13	1084	10	1025	23	865	13	900
51	17-23 -	21	1394	13	1043	22	704	30	704	33	735	46	837	29	805	48	1163	24	910	46	1080	26	1029	23	1107	33	1058	42	907	31	931
52	Dec. 24-30 -	57	1451	18	1061	10	714	15	719	16	751	23	860	16	821	37	1200	28	938	37	1117	19	1048	24	1131	29	1087	39	946	23	954

NOTE.—The Rainfall week is from 9 h on one Sunday morning to the same hour on the next.

TABLE III.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF ACCUMULATED HEAT ABOVE 42° F. IN EACH DISTRICT DURING THE YEAR 1916.

1916.		0. SCOTLAND, N.		Eastern Districts. 1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.E.		MEANS FOR EASTERN DISTRICTS.		Western Districts. 6. SCOTLAND, W.		7. ENGLAND, N.W. AND NORTH WALES.		8. SOUTH WALES AND ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		MEANS FOR WESTERN DISTRICTS.		11. ENGLISH CHANNEL.		MEANS FOR DISTRICTS 1-10 COMBINED.	
No. of Week.	Limiting Dates of each Week.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.
	DAY-DEGREES ABOVE 42° FAHRENHEIT—1916.																														
	1916.																														
1	Jan. 2-8 -	20	20	26	26	35	35	36	36	36	36	42	42	35	35	27	27	39	39	43	43	33	33	42	42	37	37	56	56	36	36
2	9-15 -	15	35	17	43	31	66	26	62	28	64	28	70	26	61	25	52	26	65	27	70	29	62	36	78	29	66	40	96	28	64
3	16-22 -	24	59	26	69	33	99	33	95	35	99	34	104	32	93	26	78	34	99	36	106	33	95	39	117	33	99	49	145	32	96
4	Jan. 23-29 -	24	83	15	84	25	124	27	122	29	128	32	136	26	119	23	101	28	127	30	136	31	126	33	150	29	128	39	184	28	124
5	Jan. 30-Feb. 5	19	102	12	96	21	145	9	131	22	150	18	154	16	135	21	122	21	148	21	157	26	152	31	181	24	152	24	208	20	144
6	Feb. 6-12 -	0	102	0	96	6	151	8	139	5	155	13	167	6	141	3	125	6	154	10	167	6	158	11	192	7	159	24	232	6	150
7	13-19 -	0	102	0	96	9	160	30	169	17	172	33	200	18	159	3	128	13	167	27	194	13	171	29	221	17	176	39	271	17	167
8	Feb. 20-26 -	0	102	0	96	0	160	0	169	0	172	0	200	0	159	0	128	0	167	0	194	1	172	0	221	0	176	1	272	0	167
	Winter Totals	110		103		201		256		253		334		229		154		218		331		231		340		255		490		242	
9	Feb. 27-Mar. 4	0	102	0	96	0	160	0	169	0	172	0	200	0	159	0	128	0	167	0	194	0	172	0	221	0	176	2	274	0	167
10	Mar. 5-11 -	0	102	0	96	0	160	0	169	0	172	0	200	0	159	0	128	0	167	0	194	0	172	0	221	0	176	2	276	0	167
11	12-18 -	2	104	0	96	0	160	11	180	8	180	28	228	9	168	7	135	8	175	26	220	9	181	20	241	14	190	31	307	12	179
12	19-25 -	0	104	0	96	0	160	7	187	4	184	11	239	5	173	4	139	2	177	10	230	7	188	13	254	7	197	20	327	6	185
13	Mar. 26-Apr. 1	4	108	8	104	18	178	19	206	15	202	19	258	16	189	13	152	13	190	16	246	18	206	21	275	16	213	26	353	16	201
14	April 2-8 -	19	127	24	128	36	214	37	243	45	247	41	299	37	226	31	183	34	224	36	282	30	236	34	309	33	246	35	388	35	236
15	9-15 -	15	142	31	159	40	254	40	283	42	289	41	340	39	265	28	211	31	255	35	317	31	267	39	348	33	279	43	431	36	272
16	16-22 -	18	160	12	171	25	279	31	314	31	320	32	372	26	291	24	235	24	279	30	347	26	293	31	379	27	306	34	465	26	298
17	April 23-29 -	43	203	49	220	60	339	74	388	72	392	82	454	67	358	55	290	67	346	71	418	46	339	68	447	61	367	78	543	64	362
18	April 30-May 6	24	227	29	249	31	370	67	455	46	438	90	544	53	411	39	329	43	389	67	485	34	373	49	496	46	413	85	628	50	412
19	May 7-13 -	32	259	31	280	38	408	49	504	43	481	50	594	42	453	30	359	36	425	41	526	30	403	38	534	35	448	56	684	37	449
20	14-20 -	52	311	63	343	92	500	93	597	102	583	97	691	89	542	79	438	97	522	94	620	88	491	104	638	92	540	99	783	91	540
21	21-27 -	64	375	69	412	90	590	105	702	99	682	99	790	93	635	74	512	85	607	85	705	64	555	68	706	75	615	100	883	84	614
22	May 28-June 3	44	419	55	467	73	663	82	784	78	760	83	873	74	709	60	572	68	675	74	779	54	609	67	773	65	680	90	973	70	694
	Spring Totals	317		371		503		615		588		673		550		444		508		585		437		552		504		701		527	
23	June 4-10 -	36	455	36	503	53	716	64	848	55	815	58	931	53	762	54	626	55	730	55	834	44	653	59	832	53	733	69	1042	53	747
24	11-17 -	52	507	51	554	43	759	50	898	58	873	64	995	53	815	71	697	68	798	74	908	66	719	85	917	73	806	86	1128	63	810
25	18-24 -	73	580	76	630	88	847	92	990	95	968	97	1092	90	905	85	782	93	891	88	996	85	804	100	1017	90	896	99	1227	90	900
26	June 25-July 1	71	651	71	701	89	936	101	1094	94	1062	103	1195	92	997	83	865	92	983	95	1091	81	885	94	1111	89	985	103	1330	91	991
27	July 2-8 -	65	716	66	767	95	1031	113	1207	106	1168	113	1308	99	1096	83	948	95	1078	103	1194	80	965	99	1210	92	1077	111	1441	95	1086
28	9-15 -	76	792	83	850	98	1129	109	1316	101	1269	108	1416	100	1196	86	1034	97	1175	102	1296	90	1055	106	1316	96	1173	117	1558	98	1184
29	16-22 -	106	898	116	966	118	1247	118	1434	127	1396	129	1545	122	1318	122	1156	122	1297	131	1427	116	1171	132	1448	125	1298	134	1692	124	1308
30	July 23-29 -	123	1021	137	1103	127	1374	115	1549	139	1535	130	1675	130	1448	143	1299	141	1438	144	1571	130	1301	148	1594	141	1439	144	1836	135	1443
31	July 30-Aug. 5	104	1125	127	1230	147	1521	157	1706	158	1693	162	1837	150	1598	138	1437	144	1582	156	1727	139	1440	160	1754	147	1586	163	1999	149	1592
32	Aug. 6-12 -	110	1235	113	1343	127	1648	141	1847	146	1839	152	1989	136	1734	133	1570	139	1721	144	1871	141	1581	157	1911	143	1729	155	2154	139	1731
33	13-19 -	99	1334	108	1451	127	1775	141	1988	134	1973	142	2131	130	1864	123	1693	123	1844	133	2004	115	1696	130	2041	125	1854	146	2300	128	1859
34	20-26 -	83	1417	88	1539	125	1900	131	2122	132	2105	138	2269	123	1987	118	1811	129	1973	134	2138	121	1817	132	2173	127	1981	150	2450	125	1984
35	Aug. 27-Sept. 2	77	1494	76	1615	108	2008	114	2236	108	2213	125	2394	106	2093	100	1911	106	2079	119	2257	99	1916	113	2286	108	2089	138	2588	107	2091
	Summer Totals	1075		1148		1345		1452		1453		1521		1384		1339		1404		1478		1307		1513		1409		1815		1397	
36	Sept. 3-9 -	88	1582	94	1709	109	2117	111	2347	111	2324	118	2512	109	2202	106	2017	114	2193	119	2376	116	2032	127	2413	116	2205	132	2720	113	2204
37	10-16 -	62	1644	67	1776	83	2200	88	2435	90	2414	103	2615	86	2288	77	2094	88	2281	104	2480	88	2120	100	2513	92	2297	116	2836	89	2293
38	17-23 -	49	1693	50	1826	61	2261	62	2497	60	2474	74	2689	62	2350	64	2158	73	2354	87	2567	76	2196	85	2598	77	2374	104	2940	69	2362
39	Sept. 24-30 -	74	1767	67	1893	85	2346	101	2598	92	2566	109	2798	91	2441	85	2243	95	2449	108	2675	102	2298	111	2709	100	2474	124	3064	96	2458
40	Oct. 1-7 -	43	1810	53	1946	85	2431	102	2700	97	2663	116	2914	91	2532	71	2314	95	2544	115	2790	96	2394	118	2827	99	2573	127	3191	95	2553
41	8-14 -	60	1870	69	2015	101	2532	116	2816	111	2774	127	3041	105	2637	85	2399	102	2646	120	2910	89	2483	111	2938	101	2674	125	3316	103	2656
42	15-21 -	26	1896	20	2035	36	2568	36	2852	40	2814	43	3084	35	2672	35	2434	36	2682	52	2962	47	2530	62	3000	47	2721	79	3395	41	2697
43	Oct. 22-28 -	28	1924	28	2063	35	2603	39	2891	42	2856	47	3131	38	2710	29	2463	33	2715	48	3010	28	2558	32	3032	34	2755	64	3459	36	2733
44	Oct. 29-Nov 4	27	1951	27	2090	33	2636	45	2936	37	2893	60	3191	40	2750	29	2492	35	2750	53	3063	32	2590	37	3069	37	2792	74	3533	38	2771
45	Nov. 5-11 -	28	1979	31	2121	42	2678	42	2978	39	2932	50	3241	41	2791	34	2526	45	2795	48	3111	29	2619	40	3109	39	2831	62	3595	40	2811
46	12-18 -	25	2004	22	2143	23	2701	23	3001	20	2952	20	3261	22	2813	23	2549	20	2815	20	3131	36	2655	39	3148	28	2859	34	3629	25	2836
47	19-25 -	21	2025	20	2163	27	2728	31	3032	29	2981	32	3293	26	2839	22	2571	26	2841	30	3161	25	2680	29	3177	26	2885	45	3674	26	2862
48	Nov. 26-Dec. 2	12	2037	8	2171	7	2735	1	3033	2	2983	2	3295	4	2843	13	2584	19	2860	10	3171	22	2702	26	3203	18	2903	23	3697	11	2873
	Autumn Totals	543		556		727		797		770		901		759		673		781		914		786		917		814		1109		782	
49	Dec. 3-9 -	2	2039	0	2171	0	2735	0	3033	0	2983	0	3295	0	2843	3	2587	0	2860	4	3175	6	2708	8	3211	4	2907	19	3716	2	2875
50	10-16 -	0	2039	0	2171	0	2735	0	3033	0	2983	0	3295	0	2843	0	2587	0	2860	0	3175	0	2708	0	3211	0	2907	7	3723	0	2875
51	17-23 -	0	2039	0	2171	0	2735	0	3033	0	2983	1	3296	0	2843	0	2587	0	2860	1	3176	0	2708	0	3211	0	2907	24	3747	0	2875
52	Dec. 24-30 -	8	2047	5	2176	6	2741	9	3042	9	2992	11	3307	8	2851	19	2606	12	2872	15	3191	24	2732	28	3239	20	2927	30	3777	14	2889

NOTE.—The method of computing Accumulated Temperature is explained in the Guide to the Tables of the Weekly Weather Report.

TABLE IV.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF **ACCUMULATED HEAT** BELOW 42° F. IN EACH DISTRICT DURING THE YEAR 1916.

1916.		0. Scot-land, N.		Eastern Districts.												Western Districts.																11. English Channel.		Means for Districts 1-10 combined.	
				1. Scot-land, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		6. Scot-land, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.											
No. of Week.	Limiting Dates of each Week.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.
	DAY-DEGREES BELOW 42° FAHRENHEIT—1916.																																		
	1916.																																		
1	Jan. 2-8 -	4	4	8	8	1	1	0	0	0	0	0	0	2	2	1	1	0	0	0	0	2	2	0	0	1	1	0	0	1	1				
2	9-15 -	16	20	30	38	17	18	17	17	12	12	11	11	17	19	7	8	4	4	0	0	0	2	0	0	2	3	0	0	10	11				
3	16-22 -	12	32	13	51	4	22	2	19	4	16	0	11	4	23	5	13	0	4	0	0	6	8	1	1	2	5	0	0	3	14				
4	Jan. 23-29 -	14	46	28	79	8	30	10	29	9	25	5	16	12	35	9	22	3	7	2	2	8	16	1	2	4	9	0	0	8	22				
5	Jan. 30-Feb. 5	11	57	28	107	11	41	20	49	14	39	10	26	17	52	13	35	8	15	5	7	14	30	9	11	10	19	0	0	14	36				
6	Feb. 6-12 -	31	88	39	146	33	74	31	80	33	72	27	53	33	85	29	64	24	39	23	30	31	61	26	37	27	46	3	3	30	66				
7	13-19 -	44	132	43	189	30	104	19	99	29	101	12	65	27	112	30	94	26	65	8	38	28	89	11	48	21	67	0	3	24	90				
8	Feb. 20-26 -	46	178	55	244	48	152	53	152	58	159	54	119	54	166	43	137	42	107	48	86	33	122	31	79	39	106	18	21	46	136				
	Winter Totals	349		449		281		244		282		174		286		265		213		134		234		152		200		28		243					
9	Feb. 27-Mar. 4	54	232	57	301	37	189	35	187	51	210	36	155	43	209	48	183	43	150	48	134	44	166	42	121	45	151	22	43	44	180				
10	Mar. 5-11 -	48	280	60	361	52	241	53	240	57	267	50	205	54	263	49	232	47	197	52	186	41	207	41	162	46	197	24	67	50	230				
11	12-18 -	26	306	42	403	27	268	17	257	23	290	8	213	23	286	26	258	23	220	15	201	21	228	10	172	19	216	1	68	21	251				
12	19-25 -	33	339	42	445	34	302	25	282	30	320	21	234	30	316	29	287	29	249	21	222	26	254	21	193	25	241	4	72	28	279				
13	Mar. 26-Apr. 1	32	371	35	480	31	333	33	315	34	354	29	263	32	348	28	315	23	272	28	250	29	283	20	213	26	267	10	82	29	308				
14	April 2-8 -	24	395	34	514	21	354	19	334	25	379	16	279	23	371	20	335	20	292	18	268	19	302	18	231	19	286	3	85	21	329				
15	9-15 -	23	418	19	533	11	365	11	345	12	391	9	288	13	384	12	347	8	300	5	273	12	314	7	238	9	295	0	85	11	340				
16	16-22 -	11	429	20	553	8	373	8	353	11	402	6	294	11	395	8	355	6	306	6	279	8	322	3	241	6	301	0	85	8	348				
17	April 23-29 -	4	433	4	557	0	373	0	353	0	402	0	294	1	396	0	355	0	306	0	279	0	322	0	241	0	301	0	85	1	349				
18	April 30-May 6	11	444	15	572	5	378	0	353	1	403	0	294	4	400	4	359	4	310	0	279	4	326	0	241	2	303	0	85	3	352				
19	May 7-13 -	10	454	11	583	1	379	0	353	2	405	0	294	3	403	6	365	0	310	0	279	8	334	3	244	3	306	0	85	3	355				
20	14-20 -	0	454	0	583	0	379	0	353	0	405	0	294	0	403	0	365	0	310	0	279	0	334	0	244	0	306	0	85	0	355				
21	21-27 -	0	454	0	583	0	379	0	353	0	405	0	294	0	403	0	365	0	310	0	279	0	334	0	244	0	306	0	85	0	355				
22	May 28-June 3	0	454	0	583	0	379	0	353	0	405	0	294	0	403	0	365	0	310	0	279	0	334	0	244	0	306	0	85	0	355				
	Spring Totals	276		339		227		201		246		175		237		228		203		193		212		165		200		64		219					
23	June 4-10 -	0	454	0	583	0	379	0	353	0	405	0	294	0	403	0	365	0	310	0	279	0	334	0	244	0	306	0	85	0	355				
24	11-17 -	0	454	2	585	0	379	0	353	0	405	0	294	0	403	0	365	0	310	0	279	0	334	0	244	0	306	0	85	0	355				
25	18-24 -	0	454	0	585	0	379	0	353	0	405	0	294	0	403	0	365	0	310	0	279	0	334	0	244	0	306	0	85	0	355				
26	June 25-July 1	0	454	0	585	0	379	0	353	0	405	0	294	0	403	0	365	0	310	0	279	0	334	0	244	0	306	0	85	0	355				
27	July 2-8 -	0	454	0	585	0	379	0	353	0	405	0	294	0	403	0	365	0	310	0	279	0	334	0	244	0	306	0	85	0	355				
28	9-15 -	0	454	0	585	0	379	0	353	0	405	0	294	0	403	0	365	0	310	0	279	0	334	0	244	0	306	0	85	0	355				
29	16-22 -	0	454	0	585	0	379	0	353	0	405	0	294	0	403	0	365	0	310	0	279	0	334	0	244	0	306	0	85	0	355				
30	July 23-29 -	0	454	0	585	0	379	0	353	0	405	0	294	0	403	0	365	0	310	0	279	0	334	0	244	0	306	0	85	0	355				
31	July 30-Aug. 5	0	454	0	585	0	379	0	353	0	405	0	294	0	403	0	365	0	310	0	279	0	334	0	244	0	306	0	85	0	355				
32	Aug. 6-12 -	0	454	0	585	0	379	0	353	0	405	0	294	0	403	0	365	0	310	0	279	0	334	0	244	0	306	0	85	0	355				
33	13-19 -	0	454	0	585	0	379	0	353	0	405	0	294	0	403	0	365	0	310	0	279	0	334	0	244	0	306	0	85	0	355				
34	20-26 -	0	454	0	585	0	379	0	353	0	405	0	294	0	403	0	365	0	310	0	279	0	334	0	244	0	306	0	85	0	355				
35	Aug. 27-Sept. 2	0	454	0	585	0	379	0	353	0	405	0	294	0	403	0	365	0	310	0	279	0	334	0	244	0	306	0	85	0	355				
	Summer Totals	0		2		0		0		0		0		0		0		0		0		0		0		0		0		0					
36	Sept. 3-9 -	0	454	0	585	0	379	0	353	0	405	0	294	0	403	0	365	0	310	0	279	0	334	0	244	0	306	0	85	0	355				
37	10-16	0	454	0	585	0	379	0	353	0	405	0	294	0	403	0	365	0	310	0	279	0	334	0	244	0	306	0	85	0	355				
38	17-23 -	0	454	0	585	0	379	0	353	0	405	0	294	0	403	0	365	0	310	0	279	0	334	0	244	0	306	0	85	0	355				
39	Sept. 24-30 -	0	454	0	585	0	379	0	353	0	405	0	294	0	403	0	365	0	310	0	279	0	334	0	244	0	306	0	85	0	355				
40	Oct. 1-7 -	0	454	0	585	0	379	0	353	0	405	0	294	0	403	0	365	0	310	0	279	0	334	0	244	0	306	0	85	0	355				
41	8-14 -	0	454	0	585	0	379	0	353	0	405	0	294	0	403	0	365	0	310	0	279	0	334	0	244	0	306	0	85	0	355				
42	15-21 -	9	463	31	616	12	391	7	360	11	416	2	296	12	415	9	374	2	312	0	279	0	334	0	244	2	308	0	85	7	362				
43	Oct. 22-28 -	5	468	17	633	7	398	2	362	14	430	0	296	8	423	3	377	4	316	0	279	3	337	0	244	2	310	0	85	5	367				
44	Oct. 29-Nov. 4	1	469	10	643	4	402	0	362	5	435	0	296	4	427	0	377	0	316	0	279	8	345	2	246	2	312	0	85	3	370				
45	Nov. 5-11 -	2	471	8	651	0	402	0	362	1	436	0	296	2	429	0	377	0	316	0	279	0	345	0	246	0	312	0	85	1	371				
46	12-18 -	0	471	4	655	3	405	8	370	12	448	8	304	7	436	0	377	4	320	5	284	0	345	0	246	2	314	0	85	5	376				
47	19-25 -	5	476	12	667	11	416	15	385	19	467	12	316	14	450	7	384	6	326	6	290	8	353	8	254	7	321	0	85	10	386				
48	Nov. 26-Dec. 2	23	499	31	698	30	446	33	418	36	503	31	347	32	482	20	404	12	338	25	315	11	364	6	260	15	336	10	95	23	409				
	Autumn Totals	45		113		67		65		98		53		79		39		28		36		30		16		30		10		54					
49	Dec. 3-9 -	33	532	43	741	36	482	32	450	53	556	36	383	40	522	32	436	35	373	35	350	22	386	23	283	29	365	3	98	35	444				
50	10-16 -	29	561	48	789	44	526	45	495	64	620	48	431	50	572	45	481	53	426	52	402	39	425	52	335	48	413	21	119	49	493				
51	17-23 -	48	609	70	859	64	590	49	544	65	685	37	468	57	629	46	527	47	473	37	439	53	478	60	395	49	462	12	131	53	546				
52	Dec. 24-30 -	23	632	33	892	29	619	35	579	39	724	30	498	33	662	12	539	28	501	17	456	15	493	15	410	17	479	0	131	25	571				

NOTE.—The method of computing Accumulated Temperature is explained in the Guide to the Tables of the Weekly Weather Report.

TABLE V.—SHOWING THE WEEKLY AND PROGRESSIVE NUMBERS OF HOURS OF BRIGHT SUNSHINE REGISTERED IN EACH DISTRICT DURING THE YEAR 1916.

1916.		0. Scotland, N.		Eastern Districts.										Western Districts.										11. English Channel.		Means for Districts 1-10 combined.	
				1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.					
Weeks.																													
No. of Week.	Limiting Dates of each Week.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.
	1916.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.	Hrs.
1	Jan. 2-8 -	8	8	14	14	13	13	9	9	10	10	8	9	11	11	10	10	8	8	12	12	10	10	10	10	10	10	13	13	11	11
2	9-15 -	3	11	8	22	10	23	14	23	9	19	12	21	11	22	10	20	4	12	3	15	3	13	3	13	5	15	8	21	8	19
3	16-22 -	6	17	14	36	14	37	10	33	12	31	7	28	12	34	11	31	12	24	12	27	13	26	14	27	12	27	11	32	12	31
4	Jan. 23-29 -	6	23	11	47	12	49	17	50	13	44	17	45	14	48	5	36	8	32	13	40	11	37	10	37	10	37	17	49	12	43
5	Jan. 30-Feb. 5	14	37	19	66	10	59	7	57	11	55	12	57	12	60	12	48	8	40	10	50	24	61	16	53	14	51	15	64	13	56
6	Feb 6-12 -	9	46	16	82	28	87	27	84	25	80	26	83	24	84	17	65	16	56	18	68	17	78	22	75	18	69	21	85	21	77
7	13-19 -	16	62	25	107	23	110	23	107	18	98	25	108	23	107	15	80	13	69	16	84	16	94	14	89	15	84	16	101	19	96
8	Feb. 20-26 -	22	84	18	125	12	122	7	114	8	106	11	119	11	118	25	105	23	92	16	100	25	119	23	112	22	106	15	116	16	112
	Winter Totals	99		145		162		150		139		155		152		137		124		134		158		163		143		166		148	
9	Feb. 27-Mar. 4	15	99	15	140	16	138	15	129	11	117	13	132	14	132	19	124	17	109	21	121	20	139	24	136	20	126	18	134	17	129
10	Mar. 5-11 -	18	117	15	155	12	150	9	138	10	127	15	147	12	144	17	141	16	125	23	144	24	163	25	161	21	147	28	162	17	146
11	12-18 -	14	131	4	159	5	155	5	143	5	132	12	159	6	150	7	148	12	137	18	162	5	168	6	167	10	157	22	184	8	154
12	19-25 -	18	149	13	172	11	166	13	156	10	142	14	173	12	162	16	164	10	147	18	180	16	184	19	186	16	173	22	206	14	168
13	Mar. 26-Apr. 1	16	165	33	205	40	206	36	192	31	173	34	207	35	197	34	198	29	176	31	211	31	215	37	223	32	205	33	239	33	201
14	April 2-8 -	33	198	37	242	48	254	48	240	48	221	53	260	47	244	41	239	46	222	55	266	32	247	32	255	41	246	60	299	41	245
15	9-15 -	29	227	51	293	51	305	48	288	50	271	49	309	50	294	48	287	42	264	58	324	34	281	43	298	45	291	59	358	48	293
16	16-22 -	17	244	8	301	10	315	15	303	13	284	18	327	13	307	16	303	19	283	31	355	23	304	32	330	24	315	39	397	18	311
17	April 23-29 -	42	286	37	338	35	350	61	364	44	328	63	390	48	355	34	337	39	322	50	405	31	335	30	360	37	352	58	455	43	354
18	April 30-May 6	31	317	30	368	25	375	35	399	22	350	32	422	29	384	42	379	33	355	20	425	43	378	47	407	37	389	25	480	33	387
19	May 7-13 -	29	346	21	389	18	393	16	415	15	365	18	440	18	402	22	401	21	376	23	448	25	403	28	435	24	413	29	509	21	408
20	14-20 -	30	376	40	429	52	445	63	478	54	419	62	502	54	456	48	449	53	429	48	496	51	454	54	489	51	464	55	564	52	460
21	21-27 -	25	401	36	465	44	489	53	531	47	466	62	564	48	504	36	485	37	466	40	536	23	477	36	525	34	498	54	618	41	501
22	May 28-June 3	32	433	44	509	45	534	55	586	46	512	60	624	50	554	62	547	55	521	60	596	38	515	45	570	52	550	75	693	51	552
	Spring Totals	349		384		412		472		406		505		436		442		429		496		396		458		441		577		440	
23	June 4-10 -	10	443	11	520	33	567	45	631	31	543	48	672	34	588	34	581	31	552	50	646	36	551	47	617	40	590	64	757	37	589
24	11-17 -	41	484	48	568	26	593	26	657	34	577	40	712	35	623	77	658	62	614	53	699	76	627	78	695	69	659	47	804	52	641
25	18-24 -	32	516	27	595	23	616	24	681	22	599	30	742	25	648	42	700	31	645	35	734	22	649	29	724	32	691	36	840	29	670
26	June 25-July 1	6	522	13	608	23	639	25	706	22	621	29	771	22	670	20	720	24	669	35	769	17	666	31	755	25	716	38	878	23	693
27	July 2-8 -	10	532	8	616	22	661	32	738	25	646	43	814	26	696	19	739	23	692	38	807	33	699	30	785	29	745	52	930	28	721
28	9-15 -	13	545	16	632	32	693	29	767	27	673	28	842	26	722	19	758	24	716	30	837	17	716	25	810	23	768	57	987	24	745
29	16-22 -	28	573	23	655	27	720	29	796	32	705	42	884	31	753	37	795	32	748	56	893	30	746	51	861	41	809	63	1050	36	781
30	July 23-29 -	27	600	58	713	54	774	35	831	59	764	48	932	51	804	57	852	70	818	71	964	37	783	50	911	57	866	55	1105	54	835
31	July 30-Aug. 5	26	625	47	760	60	834	65	896	62	826	77	1009	62	866	48	900	54	872	66	1030	36	819	50	961	51	917	79	1184	57	892
32	Aug. 6-12 -	45	671	45	805	45	879	47	943	45	871	45	1054	45	911	51	951	58	930	46	1076	43	862	45	1006	49	966	58	1242	47	939
33	13-19 -	11	682	10	815	19	898	27	970	22	893	33	1087	22	933	29	980	21	951	32	1108	20	882	27	1033	26	992	47	1289	24	963
34	20-26 -	24	706	17	832	28	926	31	1001	31	924	39	1126	29	962	26	1006	31	982	38	1146	24	906	34	1067	29	1021	48	1337	29	992
35	Aug. 27-Sept. 2	32	738	34	866	34	960	28	1029	31	955	24	1150	30	992	40	1046	36	1018	31	1177	32	938	30	1097	34	1055	35	1373	32	1024
	Summer Totals	305		357		426		443		443		526		438		499		497		581		423		527		505		680		472	
36	Sept. 2-9 -	28	766	28	894	27	987	27	1056	29	984	37	1187	30	1022	29	1075	23	1041	31	1208	26	964	29	1126	28	1083	45	1418	29	1053
37	10-16 -	20	786	38	932	32	1019	21	1077	26	1010	27	1214	29	1051	31	1106	21	1062	22	1230	20	984	28	1154	24	1107	35	1453	27	1080
38	17-23 -	9	795	24	956	28	1047	26	1103	19	1029	32	1246	26	1077	24	1130	21	1083	31	1261	8	992	13	1167	19	1126	33	1486	22	1102
39	Sept. 24-30 -	16	811	13	969	27	1074	29	1132	21	1050	24	1270	23	1100	16	1146	23	1106	23	1284	23	1015	16	1183	20	1146	29	1515	22	1124
40	Oct. 1-7 -	13	824	11	980	12	1086	16	1148	15	1065	14	1284	14	1114	8	1154	6	1112	8	1292	10	1025	15	1198	9	1155	9	1524	11	1135
41	8-14 -	11	835	23	1003	19	1105	19	1167	15	1080	9	1293	17	1131	13	1167	12	1124	7	1299	10	1035	8	1206	10	1165	14	1538	14	1149
42	15-21 -	17	852	24	1027	25	1130	24	1191	29	1109	29	1322	26	1157	16	1183	26	1150	23	1322	6	1041	7	1213	16	1181	34	1572	21	1170
43	Oct. 22-28 -	11	863	16	1043	17	1147	19	1210	21	1130	22	1344	19	1176	13	1196	20	1170	22	1344	17	1058	19	1232	18	1199	24	1596	18	1188
44	Oct. 29-Nov. 4	10	873	16	1059	14	1161	19	1229	12	1142	20	1364	14	1190	14	1210	8	1178	14	1358	16	1074	19	1251	14	1213	24	1620	14	1202
45	Nov. 5-11 -	7	880	9	1068	13	1174	19	1248	14	1156	18	1382	15	1205	9	1219	7	1185	11	1369	10	1084	10	1261	9	1222	15	1635	12	1214
46	12-18 -	8	888	9	1077	9	1183	18	1266	12	1168	13	1395	12	1217	7	1226	13	1198	8	1377	3	1087	3	1264	7	1229	11	1646	9	1223
47	19-25 -	4	892	7	1084	13	1196	13	1279	10	1178	9	1404	11	1228	7	1233	10	1208	11	1388	5	1092	15	1279	10	1239	17	1663	10	1233
48	Nov. 26-Dec. 2	5	897	7	1091	11	1207	12	1291	8	1186	15	1419	11	1239	5	1238	11	1219	19	1407	5	1097	9	1288	10	1249	26	1689	11	1244
	Autumn Totals	159		225		247		262		231		269		247		192		201		230		159		191		194		316		220	
49	Dec. 3-9 -	4	901	9	1100	13	1220	5	1296	12	1198	13	1432	10	1249	13	1251	15	1234	17	1424	9	1106	11	1299	13	1262	16	1705	12	1256
50	10-16 -	4	905	6	1106	7	1227	4	1300	3	1201	3	1435	5	1254	10	1261	11	1245	13	1437	16	1122	14	1313	13	1275	15	1720	9	1265
51	17-23 -	3	908	7	1113	2	1229	4	1304	3	1204	6	1441	4	1258	7	1268	7	1252	18	1455	13	1135	11	1324	11	1286	23	1743	8	1273
52	Dec. 24-30 -	2	910	9	1122	10	1239	12	1316	6	1210	10	1451	9	1267	10	1278	9	1261	10	1465	14	1149	15	1339	12	1298	9	1752	10	1283

NOTE.—The Duration of Bright Sunshine is taken from the records of the Campbell-Stokes Sunshine Recorder.

TABLE VI.—SHOWING FOR THE YEAR 1916 THE WEEKLY AND PROGRESSIVE VALUES OF **BRIGHT SUNSHINE** IN EACH DISTRICT EXPRESSED AS **PERCENTAGES** OF THE **POSSIBLE DURATION**.

1916.		0. Scotland, N.		Eastern Districts. 1. Scotland, E.		2. England, N.E.		3. England E.		4. Midland Counties.		5. England, S.E.		Means for Eastern Districts.		Western Districts. 6. Scotland, W.		7. England, N.W. and North Wales.		8. South Wales and England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Western Districts.		11. English Channel.		Means for Districts 1-10 combined.	
No. of Week.	Limiting Dates of each week.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1915.	For the Week.	From Jan. 2, 1916.	For the Week.	From Jan. 2, 1916.
		PERCENTAGES OF POSSIBLE DURATION OF BRIGHT SUNSHINE—1916.																													
	1916.	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%	%
1	Jan. 2-8 -	17	17	29	29	25	25	16	16	19	19	16	16	21	21	19	19	16	16	21	21	20	20	18	18	19	19	23	23	20	20
2	9-15 -	8	12	16	22	20	22	26	21	18	18	22	19	20	20	19	19	8	12	6	14	5	13	5	11	9	14	14	19	15	17
3	16-22 -	12	12	28	24	26	23	17	20	21	19	12	17	21	21	20	20	21	15	21	16	25	17	25	16	22	17	18	19	21	19
4	Jan. 23-29 -	11	12	21	23	21	23	29	22	22	20	28	20	24	22	9	17	15	15	22	18	19	17	16	16	16	17	28	21	20	20
5	Jan. 30-Feb. 5	26	15	34	26	17	22	12	20	18	19	19	19	20	21	20	17	14	15	16	17	40	22	26	19	23	18	24	22	22	19
6	Feb. 6-12 -	15	15	26	26	44	26	43	24	39	23	41	23	39	24	27	19	26	17	27	19	26	23	35	22	28	20	32	24	33	22
7	13-19 -	26	17	40	28	35	27	34	26	27	24	37	25	35	26	23	20	19	17	24	20	24	23	20	21	22	20	23	23	29	23
8	Feb. 20-26 -	33	19	26	28	17	26	10	24	11	22	15	24	16	25	36	22	33	20	23	20	36	25	53	23	32	22	20	23	24	24
	Winter Percentages.	14		20		22		20		18		20		20		18		16		19		21		21		19		21		19	
9	Feb. 27-Mar. 4	21	20	21	27	22	25	20	23	15	21	18	23	19	24	26	23	23	20	28	21	28	26	33	24	28	23	24	23	24	24
10	Mar. 5-11 -	24	20	19	26	16	24	12	22	13	20	19	23	16	23	23	23	21	20	30	22	31	26	32	25	27	23	36	25	21	23
11	12-18 -	17	20	5	23	6	22	6	20	6	18	15	22	8	21	9	21	14	19	22	22	6	24	7	23	12	22	27	25	10	21
12	19-25 -	22	20	16	22	13	21	15	19	11	18	17	21	14	20	19	21	12	19	21	22	19	23	22	23	19	22	26	25	17	21
13	Mar. 26-Apr. 1	18	20	38	24	45	23	41	22	36	19	40	23	40	22	38	23	33	20	36	24	35	25	42	25	37	23	38	26	38	23
14	April 2-8 -	36	21	40	26	53	26	52	24	53	23	59	26	51	25	45	25	50	23	61	27	35	26	35	26	45	25	67	30	48	25
15	9-15 -	31	22	53	28	54	29	52	27	54	25	52	29	53	28	50	27	45	25	62	30	34	27	46	28	47	27	63	33	50	27
16	16-22 -	18	22	8	26	11	27	15	26	13	24	18	28	13	26	16	26	20	24	32	30	23	26	33	28	25	27	40	33	19	27
17	April 23-29 -	40	24	36	27	34	28	61	29	44	26	59	30	47	28	33	27	39	26	50	32	31	27	30	28	37	28	59	35	42	28
18	April 30-May 6	29	24	28	27	23	27	34	29	21	25	31	31	27	28	40	28	32	26	20	31	41	28	45	30	36	29	25	35	31	28
19	May 7-13 -	26	24	20	27	17	27	15	28	14	25	17	29	17	27	20	27	20	26	22	30	23	27	27	29	22	28	27	34	20	28
20	14-20 -	26	24	35	27	47	28	58	30	49	26	57	31	49	29	43	28	49	27	44	31	46	29	49	31	46	29	52	35	48	29
21	21-27 -	21	24	31	28	39	29	48	31	42	27	56	33	43	30	32	28	33	28	37	31	21	28	32	31	31	29	50	36	37	30
22	May 28-Jun. 3	26	24	37	28	39	29	49	32	40	28	54	34	44	30	53	30	48	29	53	33	33	28	40	31	45	30	68	38	44	30
	Spring Percentages.	25		28		30		34		29		37		32		32		31		37		29		34		33		43		33	
23	June 4-10 -	9	23	9	27	28	29	40	33	27	28	43	35	29	30	29	30	26	29	44	33	31	29	41	32	34	31	57	39	32	31
24	11-17 -	33	24	39	28	22	29	23	32	30	28	35	35	30	30	65	32	53	30	47	34	65	31	68	34	60	32	43	39	45	31
25	18-24 -	25	24	22	27	20	28	21	32	19	26	26	34	22	30	35	32	26	30	31	34	19	30	25	34	27	32	32	39	24	31
26	June 25-July 1	5	23	11	26	20	28	21	31	19	27	26	34	19	29	17	31	20	29	30	34	15	29	27	33	22	31	34	39	21	30
27	July 2-8 -	8	22	7	26	19	28	28	31	22	27	37	34	23	29	16	31	20	29	34	34	28	29	26	33	25	31	47	39	24	30
28	9-15 -	11	21	13	25	28	27	26	31	23	27	25	34	23	29	16	30	20	29	26	33	14	28	22	32	20	30	51	40	22	30
29	16-22 -	23	21	20	25	23	27	27	30	28	27	38	34	27	29	32	30	28	28	50	34	26	28	46	33	36	31	58	40	31	30
30	July 23-29 -	23	21	50	26	48	28	32	30	54	28	44	34	46	29	51	31	63	30	65	35	33	29	45	33	51	32	51	41	49	31
31	July 30-Aug. 5	23	22	42	26	55	29	62	32	58	29	72	36	58	30	44	31	49	31	62	36	33	29	46	34	47	32	75	42	52	31
32	Aug. 6-12 -	41	22	41	27	42	30	45	32	43	30	43	36	43	31	48	32	55	31	44	37	41	29	43	34	46	33	57	43	45	32
33	13-19 -	10	22	9	26	18	29	26	32	22	29	33	36	22	30	28	32	21	31	32	37	19	29	27	34	25	33	47	43	23	32
34	20-26 -	24	22	17	26	28	29	31	32	31	29	40	36	29	30	27	32	31	31	38	37	23	29	34	34	31	33	49	43	30	32
35	Aug. 27-Sept. 2	33	22	34	26	35	29	29	32	32	29	25	36	31	30	41	32	38	31	33	36	32	29	31	34	35	32	38	43	33	31
	Summer Percentages.	21		24		30		32		31		37		31		35		35		41		29		37		35		49		33	
36	Sept. 3-9 -	30	22	29	26	29	29	29	32	31	30	40	36	32	31	31	32	25	31	34	36	27	29	31	34	30	32	49	43	31	32
37	10-16 -	22	22	42	27	35	30	24	31	29	29	31	36	32	31	35	32	24	31	25	36	23	29	31	34	28	32	39	43	30	32
38	17-23 -	11	22	27	27	32	30	31	32	23	29	38	36	30	31	28	32	24	31	36	36	9	28	15	33	22	32	38	43	26	32
39	Sept. 24-30 -	19	22	15	26	33	30	35	32	25	29	29	36	27	31	19	32	28	31	27	36	27	28	19	33	24	32	35	43	26	32
40	Oct. 1-7 -	16	22	14	26	15	29	20	31	18	29	17	35	17	30	11	31	8	30	10	35	13	28	19	33	12	31	11	42	15	31
41	8-14 -	15	22	30	27	24	29	24	31	20	29	12	35	22	30	17	31	16	30	9	35	13	27	10	32	13	31	18	41	18	31
42	15-21 -	24	22	33	26	35	29	33	31	39	29	40	35	36	30	22	31	36	30	32	35	8	27	10	32	22	31	46	41	29	31
43	Oct. 22-28	17	22	24	26	24	29	27	31	29	29	32	35	27	30	19	30	28	30	32	35	24	27	27	32	26	31	37	41	27	31
44	Oct. 29-Nov. 4	16	22	25	26	22	29	28	31	18	29	29	35	24	30	21	30	12	30	21	34	25	27	28	32	21	31	38	41	22	31
45	Nov. 5-11	12	22	16	26	20	29	20	31	23	29	28	34	23	30	15	30	10	29	18	34	15	27	16	31	15	30	23	41	19	30
46	12-18 -	15	22	16	26	15	29	30	31	20	29	21	34	20	30	14	30	22	29	12	34	6	27	4	31	12	30	16	41	16	30
47	19-25	8	21	13	26	23	29	22	31	18	28	16	34	18	30	12	30	17	29	18	34	8	26	25	31	16	30	27	40	17	30
48	Nov. 26-Dec. 2	10	21	15	26	20	29	21	31	15	28	26	34	19	30	9	29	20	29	33	34	8	26	16	31	17	30	44	40	18	30
	Autumn Percentages.	17		23		25		27		24		28		25		19		21		24		16		19		20		32		23	
49	Dec. 3-9 -	10	21	18	26	25	29	10	31	23	28	23	34	20	30	25	30	28	29	32	34	18	26	21	31	25	30	29	40	23	30
50	10-16 -	8	21	13	26	14	28	7	30	7	28	5	33	9	29	20	29	22	29	24	34	32	26	27	31	25	30	28	40	17	30
51	17-23 -	7	21	15	25	5	28	8	30	5	28	12	33	9	29	14	29	13	29	34	34	25	26	21	30	21	30	42	40	15	30
52	Dec. 24-30 -	5	21	19	25	20	28	22	30	13	27	19	33	19	29	20	29	18	29	19	33	27	26	28	30	22	30	16	40	21	30

Meteorological Office,
South Kensington, London, S.W.7,

May 25th, 1916.